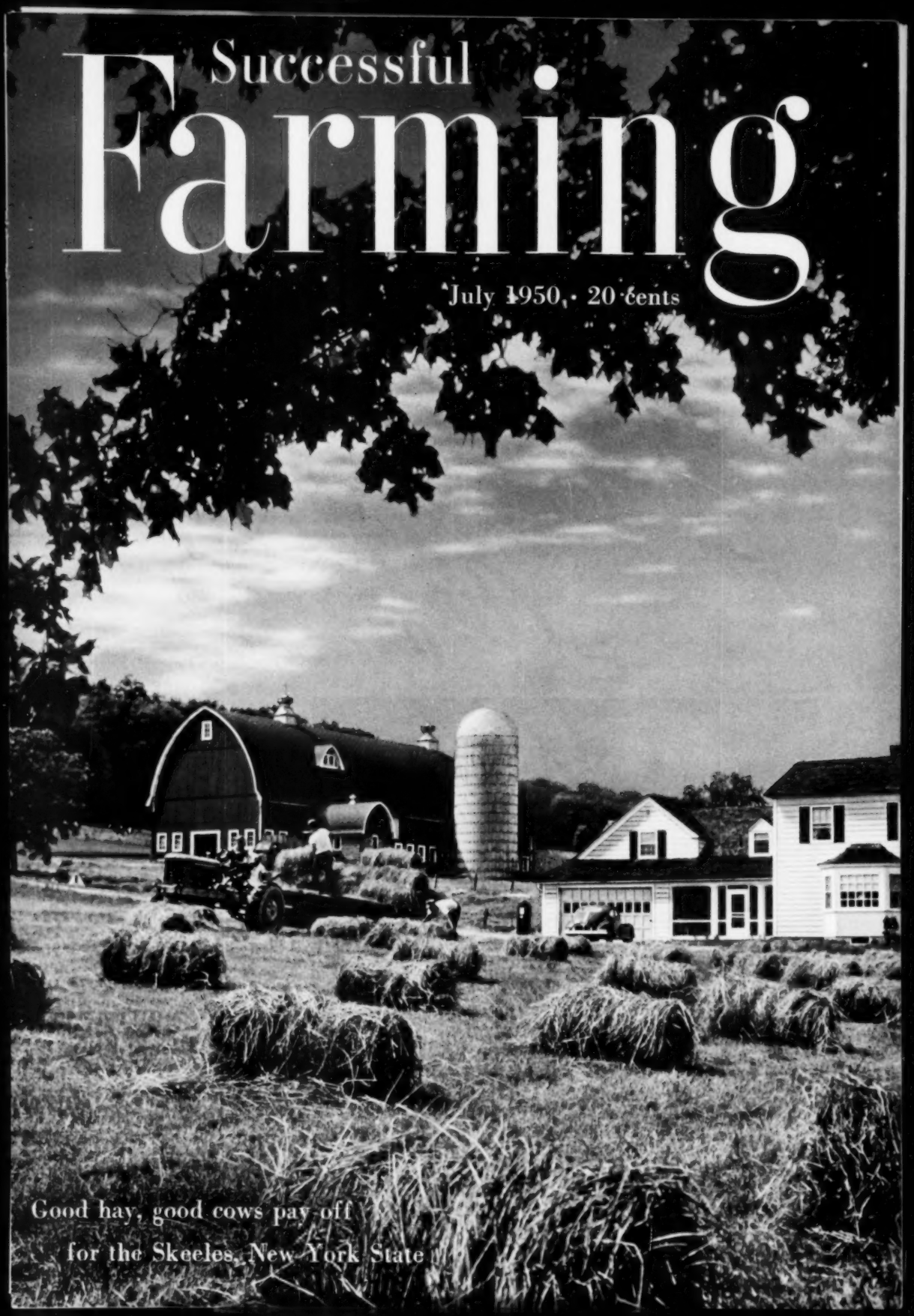
Successful Farming

July 1950 · 20 cents



Good hay, good cows pay off for the Skeeles, New York State

BECAUSE 2 GREAT COMPANIES WORKED TOGETHER

Englander
AMERICA'S MOST LUXURIOUS MATTRESS

GOODYEAR
THE GREATEST NAME IN RUBBER

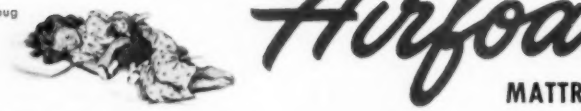
Bird Dog

Fitful

Steam Roller

America finds a better way to sleep...

ON AN Airfoam* MATTRESS... at a new low price with a 20-YEAR guarantee!


Slumberbug

Also available in wood rose stripe

All the proof you need. Just press down on Airfoam. Feel how it molds itself to your hand, responds with a buoyant "uplift."

No other foundation looks like this. Joined only through the middle by flexible steel bands, each spring in the upper half is free to adjust individually to every move. Lower part acts as a unit, resists the weight and supports the body in the firm, healthful manner doctors recommend.

Now you can get an Englander Mattress of Airfoam for $59.75

The New Sleep is here! An Airfoam mattress—for no more than the price of a good innerspring mattress. Englander and Goodyear, working together, made this possible. Airfoam—a billowy, pillowy fluff of millions of tiny air cells. That's the mattress you're going to own! That's the new way—the better way—to restful, relaxing, refreshing sleep.

When used with Englander's special Red-Line* Foundation, whole unit guaranteed for 20 years

Amazing Airfoam calls for a new, revolutionary foundation, to give it all the luxurious comfort and long life no ordinary box spring could. Englander engineers have designed this special Red-Line foundation just for Airfoam. So scientifically matched are they that we guarantee them both for 20 years against any defects in material or workmanship when used together.

Both for the price of a conventional mattress and box spring $119.50

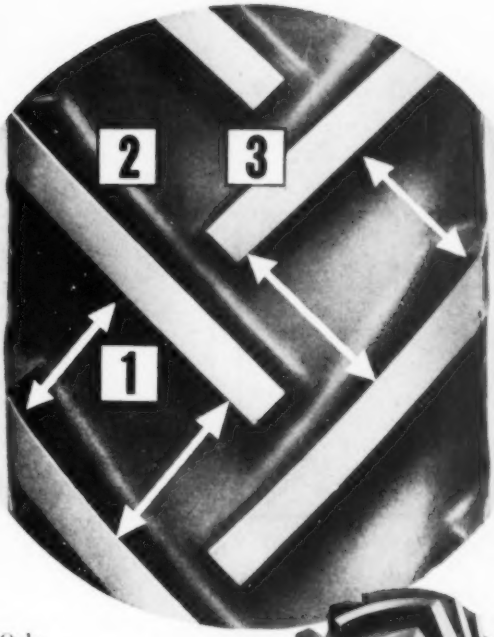
Other Englander Red-Line mattresses and companion box springs (both twin and full size) from $39.75 to $79.75.

Only Englander makes an Airfoam Mattress

*TM The Englander Company, Inc.

†TM The Goodyear Tire & Rubber Company

You're not getting full traction unless you have all three!



1 **Wedge-grip action.** Note how Goodyear SUPER-SURE-GRIP lugs are set closer together at the shoulder than at the center—don't flare out as in most tires. *Result:* soil is *wedged* between SUPER-SURE-GRIP lugs to give stronger, firmer grip!

2 **Straight-bar lugs.** Because Goodyear's husky lugs are set straight as a ruler, they give you more gripping surface than lugs that toe in. *Result:* SUPER-SURE-GRIPS give you *full-lug pull* for their full length and depth.

3 **Self-cleaning O-P-E-N C-E-N-T-E-R.** Only Goodyear gives you this O-P-E-N C-E-N-T-E-R design with straight, even-balanced, equal-size, wedge-grip lugs—with no mud-collecting connectors, hooks, knobs or elbows. *Result:* SUPER-SURE-GRIPS give deeper bite, more even pull, smoother ride, longer wear!

That's why more farmers want SUPER·SURE·GRIPS than any other tractor tire!

WHO knows better than you which tire is best for pulling power, best for non-slip traction, best for wear?

Who knows better than you which tire helps get farm work done faster and easier—and therefore more profitably?

That's why farmers from one end of the country to the other voted SUPER-SURE-GRIPS their first-choice tractor tire!

Ask your Goodyear farm tire dealer to show you these tires that insure greater grip in hard going—that *pull where other tires won't.*

They cost no more than other tires—make any tractor work better!

GOODYEAR

Super-Sure-Grip Tractor Tires

Super-Sure-Grip—T.M. The Goodyear Tire & Rubber Company, Akron, Ohio

Gets $4.35 Per Pound For His Champion Barrow

Art Arens' National Grand Champion Duroc Brings $1,044

Art Arens shows his National Grand Champion Duroc, Austin Fleetline. Art's another Wheaties eating farm champion. So many active people eat Wheaties! How about you?

HARTINGTON, NEB.—Art Arens really "brought home the bacon" from 1949 National Barrow Show. His 240 lb. Duroc barrow topped 1366 other entries to become Grand Champion over all breeds. Sold for $1,044!

* * *

WINNING AWARDS is regular habit for Art. He also had Superior Duroc Boar at '49 National Duroc Congress. Another Arens habit: eating Wheaties. Art has 'em most every morning.

"I KNEW you could do it!"

Son and Daughter take after Art, by winning show ribbons too. Also take after him at breakfast. They're Wheaties fans! Lots of people *are*. And Wheaties now come to you fresher, crisper, and more delicious than ever, thanks to improved packaging!

Family favorite—that's Wheaties! For flavor—for nourishment too. Wheaties give you B-vitamins, minerals, protein, food energy. Have 'em tomorrow at your house: milk, fruit and WHEATIES, "Breakfast of Champions!"

Extra value with Wheaties. Coupons in Wheaties and other General Mills products for Queen Bess Pattern Silverware, by Onedia Community Silversmiths.

"Wheaties" and "Breakfast of Champions" are registered trade marks of **General Mills.**

Successful Farming

The Dairy Farmer

THE MAGAZINE OF FARM BUSINESS AND FARM HOMES

July 1950 Vol. 48, No. 7

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When work is done...

YOU ENJOY taking it easy at the end of the day, when your last chores are finished and you feel that you've earned a little relaxation.

And, if you're like most men, you hope that when your active days are over you'll be able to settle down and take things easier through the later years.

But just looking forward to the time of your retirement won't do much good unless you start *planning* for it now. And, in those plans, you'll find that life insurance is bound to play a very important part.

By working out a life insurance program now, you can arrange things so that at a certain age you can count on a definite amount of money to help you and your wife go where you will and do as you please.

And, during the years until then, you can be sure that if you *should* happen to die, the same insurance would give your family financial help and security.

The New York Life agent serving your county will be glad to help you work out a life insurance program designed to do the most for your family's protection and your own future security. Why not get in touch with him and talk it over?

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Farm Outlook

Latest information on conditions, production, markets, and income prospects

C.C.C. off the hook

The Commodity Credit Corporation got as big a lift as you did out of the spring rise in prices of farm products. Officials saw possibility that less 1949-crop corn would be put under loan, and that large quantities of 1949 crop-loan wheat would be redeemed for sale in the market. Redemptions of cotton loans also began to run large, and the C.C.C. wartime accumulations of wool had practically disappeared.

All of this meant more money in the C.C.C. till with which to finance 1950 crop programs. Monthly crop reports also were indicating that this year's reduced production would require less financing than in the last two years. Crowning all was the prospect that no marketing quotas would apply to either wheat or corn in this Congressional election year.

Only fly in the ointment was the continued heavy buying of butter and eggs for price support. Some of the butter the C.C.C. has been buying since last July—about 180 million pounds to date—is getting stale. Unable to induce domestic charities to accept much of the spread for free, the C.C.C. is now offering to give some to needy persons in foreign countries. Officials say butter has been known to keep a year in cold storage, but not much longer than that.

The same is true of dried eggs, some of which are now two years old.

More pork in South

Spring pig crop in unrestricted corn planting areas outside the Cornbelt may show a large increase this year. In general, these areas include New England and all the Southern states. Biggest corn acreage increase is in Texas. If hog price support is reinstated next fall, it will be mainly for psychological effect. C.C.C. livestock men say that, practically, there is no way of making hog price supports effective. Supports on other legally non-basic commodities also will be on an as-and-if-needed emergency basis.

Cotton for soybeans

Army wanted to buy more soybeans for Japan. U.S.D.A. said no; the price here was already too high—more buying would just send it higher. Tell you what we'll do: We'll swap some American cotton for Manchurian soybeans for export to Japan. Results: A boost in cotton prices, and a busting of the boom in soybeans as markets here saw the handwriting on the wall. All of which shows that not only Congress and the U.S.D.A., but the Army, and sometimes the State Department as well, nowadays can make or break the prices of your farm products.

Fall hog market good

The market for fall pigs was much better than most farmers expected. Now, many signs point to a good market for spring pigs, too.

Farmers probably will have a few more hogs to market this fall than they did a year ago. On the other hand, average market weights may be lower. Thus, total pork supplies may not be much greater than they were 12 months earlier. At the same time, indications are that consumer buying power will be a little stronger.

You can still expect normal seasonal price swings. Look for hog prices to work upward through July. Best prices are expected in August, but September markets should be good, too. Sell at 200 to 225 pounds. But do not try to beat the seasonal decline by selling lightweight, unfinished hogs. Consumers do not want the little chops and thin bacon cut from unfinished hogs. Buyers probably will discount lightweights $2 or $3 a hundred pounds.

Cattle demand good

The cattle market rests on a strong foundation of consumer demand. Employment and pay rolls are running at or near record high levels. Vacation resorts, hotels, and restaurants are thronged with travelers.

The prospective supply of beef is very little larger than last year. Feeders have fed more—but lighter—cattle than they did in 1949. They are still holding back cows and heifers.

July, August, and September usually bring good markets for beef cattle. This year should be no exception. Of course, if farmers bunch marketings of fed cattle, prices will have to be trimmed to get consumers to buy more beef.

Changes are coming. Soil depletion and government restrictions are limiting acreages of cash crops such as corn, soybeans, and wheat. The most promising "new" substitute crops are good pasture and hay. The best market for these "new" crops is livestock. Farmers who most quickly learn how to produce and market good pasture and hay, through livestock, will have a big advantage.

Dairy production, storage high

Dairy production is running better than 3 percent above a year ago, and 6 percent above the 5-year average.

Production per cow has been at record levels, and *percentage of cows milked per herd* has been above last year.

Storage stocks of manufactured dairy products were at record levels on May 1: Creamery butter amounted to almost 109 million pounds, of which 79 percent was government owned. We're pricing butter into storage. Stocks were over six times the latest 5-year May 1 average. Heavy storage movement yet to come.

Prices will rise seasonally as production declines in the last half of the year. No more than normal seasonal rise is expected—good chance for less than seasonal increase during late summer and fall. Carryover will be large.

Poultry

U.S.D.A. estimates 1950 egg production at 4 percent larger than last year—a new record.

Into-storage movement has been large, and drying and breaking operations have been booming. May 1 holdings of 2 million cases of shell eggs are about double a year ago, but one-third smaller than the most recent 5-year May 1 average.

Chicks from this year's hatch on May 1 were down 5 percent from last year and were 3 percent below average. Will have 5 to 7 percent fewer layers this fall.

Egg prices have averaged 10 cents or more below last year. Prices will rise seasonally through the late summer and fall. Not more than the seasonal rise expected. Prices, on the average, will advance about 15 or 20 cents, as production declines.

Number of chickens will be 4 percent smaller, says U.S.D.A., but still large. Culling will continue heavy as feeding ratios remain tight.

Storage holdings of poultry of May 1 were almost double a year earlier but only 1 percent above the most recent 5-year May 1 average. Broilers will continue to compete strongly for consumer's dollar.

U.S.D.A. estimates turkey crop at 4 percent above a year ago. With no support, prices will average less than last year.

All of which adds up to this: Good dairymen and poultrymen will have to keep on their toes to stay on their feet in the last half of 1950. END

SPECIAL FARM DEAL!

STANDARD

Here's what you can save on oil and other farm supplies!

Order now... No money down ...Pay later!

Just look what these farmers saved by taking advantage of Standard Oil's Special Farm Deal. These savings and product assortments are typical but equally-large discounts can be secured on hundreds of other assortments.

Every year thousands of farmers get in on this deal. In past years midwest farmers have saved as much as $2,000,000 by this special purchase plan.

Here's how you can keep that extra cash in *your* pocket. Just decide what Standard motor oils, greases, and other farm necessities you will use, and then place your order in advance. This will entitle you to liberal discounts on everything you order.

Best of all, you pay nothing down—just make arrangements for payment at the time of delivery.

Ask your Standard Oil man for full details of the Special Farm Deal. He'll show you how much you can save on your requirements and he'll deliver your supplies right to your door. In fact, he's always ready to help you every way he can.

TYPICAL ORDERS AND SAVINGS

CUT YOUR COSTS ON THESE QUALITY PRODUCTS

All these popular products can be purchased in this Special Farm Deal.

For your tractor, **truck** **and car:**

- PERMALUBE Motor Oil—Beats heat • Fights engine wear • Keeps engines clean • No better motor oil made
- ISO-VIS Motor Oil—Cuts carbon • Cuts consumption • Reduces wear
- POLARINE Motor Oil—For forty years a quality motor oil • Low cost • Long engine life
- STANDARD Gear Lubricant • STANDARD Viscous Lubricant

For your farm and around the house

BOVINOL Stock Spray with Methoxychlor • STANDARD 25% DDT Concentrate • EUREKA Belt Dressing • EUREKA Harness Oil • Compound Neatsfoot Harness Oil • STANDARD Rustproof Compound • MICA Axle Grease • DENDROL Dormant Spray Oil • VERDOL Summer Spray Oil.

Ladies, you too, can save money

Look at these household helps that you can purchase through this Special Standard Oil Farm Deal. Remember, no money down—pay later.

SEMDAC Flor-Glaze—the easy-to-use, long-lasting protective polish for linoleum or finished wood floors.

SEMDAC Liquid Gloss—polish for furniture and woodwork.

SUPERLA Insect Spray with DDT—for spraying on walls and ceilings (where it continues for weeks its job of killing).

SUPERLA Cream Separator Oil—non-gumming—keeps separators spinning easily.

FINOL Utility Oil—oil with a thousand-and-one uses.

NATIONAL FARM SAFETY WEEK
July 23rd-29th

POWER FARMERS—BE CAREFUL!
Accidents cost you time and money!

Be careful—the life you save may be your own!

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Year ahead in design and features • More food storage, less floor space • Easy lift, balanced, food baskets • Aluminum freezing walls, chip and rustproof • Frost free seal zone, the perfect lid seal • Compare before you buy . . . see Chill Chest "The Thrifty Buy in '50!" Send coupon below.

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Friend to Friend

Same acre, bigger yield

As farming methods continually improve, I'm led to believe we have not yet sensed the full capacity of an acre of good land to produce human food. Last spring it looked as if invasions of green bugs might be repelled by feeding nitrogen to the crop attacked. Two objectives would be thus obtained—more wheat and less damage by insects.

The news about growth-stimulating qualities of antibiotics recently astonished the livestock world. Here seems to be a way to make the crops from one acre of land go further in feeding livestock.

All this makes it harder for those who would place dollar values on land. I'll grant there are more diseases and insect enemies to reduce production. But industry and science show remarkable ability to meet these threats.

From this vast potential production per acre, there also stems this problem: How many farmers do we need, and how shall they dispose of their production? A rapid rise in our population for the next 10 years has been looked upon as a hopeful solution to surpluses. But on the other hand, we dare not overlook the rising productivity of an acre of good land.

Which hog most profitable?

The article, "Get More Money for Your Hogs," page 44, says the type of hog rating the premium for high percentage of lean cuts is probably the most economical to produce in the feedlot. Knowing that it takes more feed to produce an extra-fat hog, and more time to finish out a long, stringy hog, it seems reasonable to believe that the middle-of-the-road type would be cheapest to produce, pound for pound.

But why couldn't we have a little more proof from our experiment stations? For instance, what does it cost, or how much feed does it take per hundred pounds of gain, to produce a hog with, say, 1.6 inches of back fat, compared with one having 2 or 2½ inches of back fat? What systems of management—and what rations—are the best adapted to production of the high-cutting, meat-type hog?

Vital reserves

Farmers naturally realize the need for reasonable food reserves. The good husbandman has always carried a little hay and a little extra feed beyond his expected needs.

As a nation, we are busily stock-piling certain essential materials. What is more vital than food? And how best can food be kept in stock piles?

The intelligent farmer knows he needs to restore soil fertility as quickly as possible after the abnormal drains of a great war. Every acre of good farmland in America badly needs its organic matter restored. Most acres need fertilizing elements beyond those supplied by the decay of organic matter. Certainly, vast quantities of plant food should now be stored in our soils.

Grains, such as corn and wheat, are readily converted into human food. We might do well to revise upward our notion of a normal storage.

And finally, a large livestock population represents the highest possible form of food storage. We still are far short of normal populations of beef cattle and sheep. Whether future emergencies may include drouths, floods, or war—fertility stored in the soil, food crops stored in the crib, and a large livestock population are our best insurance policies. Agricultural policies should be developed accordingly.

"Where now, brown cow?"

Apparently, cows do not worry very much or very long at a time. If they did, the present attempts at establishing prices of dairy products might throw them into a nervous breakdown.

First the good cow saw her owner peddling to his neighbors the milk he could not use himself. And then the neighbors got a little farther away, and the milk was sold to dealers after considerable haggling, and the dealers sold it to the consumers.

As the bickering grew between the cow's owner and the dealer, a few wise dairymen decided they would join forces, organize a cooperative, and tell the dealers exactly what they would have to pay for Bossy's milk. Editors and the public generally proclaimed the age of dairy cooperatives.

Then there seemed to be something wrong with cooperatives. Some folks said they were too small. Others said they were so large they had completely lost touch with Bossy's owner. So the next step was to ask the state or the federal government to determine the price of milk.

Naturally, the men who fed and milked Bossy wanted all they could get for their work.

Most folks forgot the consumer entirely until he began to cut down on the amount of milk he used. Good prices for milk encouraged many men to keep more cows. Today we have accumulations of dairy products, especially butter, owned by the government. Is everyone satisfied to have the state continue setting the price of dairy products? Or would they prefer that we go back to our dependence upon cooperatives? There may be some hardy souls who would prefer making their own individual deals with the distributor and consumer. We face the burning question, "Where now, brown cow?"

Kirk Fox

Judge Robbins' HOBBY HUNT

Judge Robbins visits two of the many hobbyists who find greater smoking pleasure in crimp cut Prince Albert—America's largest-selling smoking tobacco.

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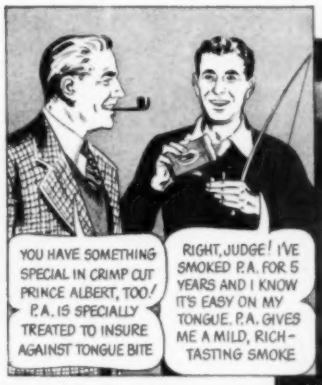

Prince Albert's choice, crimp cut tobacco is specially treated to insure against tongue bite for greater smoking comfort. And the humidor-top locks in P. A.'s freshness and flavor.

R. J. Reynolds Tobacco Co., Winston-Salem, N. C.

MORE MEN SMOKE

PRINCE ALBERT

THAN ANY OTHER TOBACCO

THE NATIONAL JOY SMOKE

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DOG TRAINER

Prince Albert's crimp cut tobacco makes it easy to shape firm, full-bodied cigarettes with trim, neat ends. And P. A.'s rich taste is long lasting in the humidor-top, handy pocket tin.

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Less work, less worry, less fuel to buy

Mueller Climatrol

Modern heating for any farm home with gas, oil, or coal

Why let house-heating be a burdensome chore? You have enough to do without that. Let a Mueller Climatrol take care of winter comfort in your home automatically — with absolutely no effort on your part!

Just set your thermostat and forget it. There's no work, no worries, no muss. You can count on the fuel-thrifty economy of a Mueller Climatrol to give you years of satisfying comfort. And quality-construction assures trouble-free dependability.

Ask your nearby Mueller dealer for full details on this complete line. There's a size and type for every size home and every fuel — every one backed by Mueller's 93 years of experienced leadership. See him soon — and erase heating from your list of winter chores with a fuel-thrifty Mueller Climatrol.

Mueller Climatrol Since 1857

Tear out this coupon and mail today for full facts!

G-1

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What's new in farming®

Tips you can use today

Field forage harvester. This harvester is powered by the power take-off on the tractor, letting the operator get the chopping mechanism into full motion before beginning a heavy windrow. This prevents choking. With 30 hp delivered to the machine, it will chop up to 8 tons of

hay or 20 tons of silage per hour. Row-crop and windrow attachments can be put on quickly. The machine is equipped with an overrunning clutch, preventing strain on the power shaft. The feeding mechanism can be reversed from the tractor seat.—*New Holland Machine Company, New Holland, Pennsylvania.*

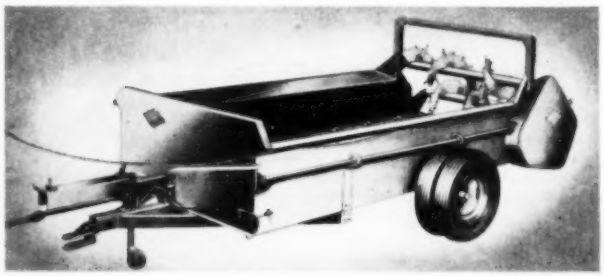
Grubbing tongs. Tongs that won't slip may be the answer to that tiresome job of clearing brush and small trees. The tongs will handle trees up to 5 inches in diam-

eter. The device has a scissors action, so the harder you pull the stronger they grip. Specially designed handles simplify disengaging or hooking the tongs to trees or brush. The tongs hook on at the base of the growth so the roots are also pulled out.—*Re-Bo Manufacturing Company, Inc., 331 Madison Ave., New York 17, New York.*

Tractor stilts. You can transform your regular farm tractor into a high-clearance sprayer or duster. The stilts are made to fit any standard make of tractor. Operation of the tractor remains the same. Back-stepping of rear drive wheels increases the wheel base. Spray containers

are carried under the differential. Mounting the stilts is simple, takes about an hour. The tractor on stilts can also be used for carrying a detasseling crew by the addition of a platform.—*Tractor Stilts, Inc., Blair, Nebraska.*

World's largest spreader. That claim, for a standard stock model, is made for this implement. With side- and end-panel extensions, which convert it to a self-unloading wagon, the unit has a capacity of 150 bushels. Operation of the shredders and spreaders is by direct drive from the tractor power take-off. This feature, together with the 8-speed control from the tractor seat, is said to make possible a perfect job of spreading during 12 months of the year. Because there is no hookup between the wheels and spreading mechanism, the tires are standard auto size. Dual wheels make it possible to carry extra-large loads over soft surfaces. Standard-size tires give the spreader a low loading height. The spreader is built of metal alloy sheets.—*Perfection Steel Body Co., Galion, Ohio.* END



McCormick* FARMALLS*

First in the field!

First because of extra values—like these

Farmalls give you *more for your money*. Here, for example, are some of the extra values you'll find in the 2-plow Farmall C:

Stars at ALL jobs on all crops. Farmall C gives you tricycle design for pin-point turning; big 36-inch rear wheels for good traction; easy wheel tread adjustment *without removing wheels;* high crop clearance. There's a *complete* line of matched McCormick implements . . . every machine you need for every crop you grow.

Lets you watch your work. When you cultivate with a Farmall, you watch the gangs while facing *ahead*. Your good view lets you work close to the rows for better weed control. No tail-swishing tools to dig up your crops when cultivating check-rows or on the contour.

Gives FULL hydraulic control. The Farmall C Touch-Control system does far more than lift tractor-mounted implements. It *lowers* them, too—as gently as you wish. It exerts *positive downward pressure* to assure the working depth you choose. It gives you *selective control* of right and left gangs or *delayed lifting* and lowering of rear gangs. And you have hydraulic power even when the clutch is disengaged.

Protects power-take-off-driven implements. The Farmall C power take-off shaft never turns too fast. It is geared to turn at standard ASAE speed when the engine is at full throttle for maximum drawbar pull.

Gives you all-day comfort. You get smooth riding in the wide, upholstered Farmall C seat with its spring mounting and its hydraulic shock absorber. You're up out of the dust zone, away from the engine heat.

See on your own farm how a McCormick FARMALL will give you more for your money. Ask your IH dealer for a free demonstration. Ask about the income purchase plan, too.

FARMALL C, shown here with a direct-connected McCormick 2-bottom plow, is a 2-plow tractor under all average conditions. In corn and cotton it's a 2-row tractor: plants 25 to 35 acres a day, cultivates 30 to 40 acres.

3 OTHER SIZES, TOO . . . 5 FARMALLS IN ALL . . . so there's a Farmall that's exactly right for you.

FARMALL SUPER A
1-plow, 1-row tractor

FARMALL H
Full 2-plow tractor

FARMALL M
FARMALL MD (diesel)
Full 3-plow tractors

FARMALL CUB does any job a team can do, often at twice the speed. Matched McCormick implements equip the Cub to do almost every job on every crop . . . to mechanize farms up to 40 acres, or to free larger tractors for the heavier jobs on larger farms.

Observe Farm Safety Week—July 23 to 29

*McCORMICK and FARMALL are separately-registered trade-marks of International Harvester Company

SEND FOR FREE BOOKLETS

Read all about the five Farmall tractors and what each can do for you. No cost, no obligation. Simply send the coupon.

International Harvester Company
P. O. Box 7333, Dept. E, Chicago 80, Illinois
Please send me free booklets on:

- ☐ Farmall Cub
- ☐ Farmall C
- ☐ Farmall Super A
- ☐ Farmall H, M, and MD (Diesel)
- ☐ I'd like a Farmall demonstration on my own farm

I farm_____ crop acres. Main crop_____

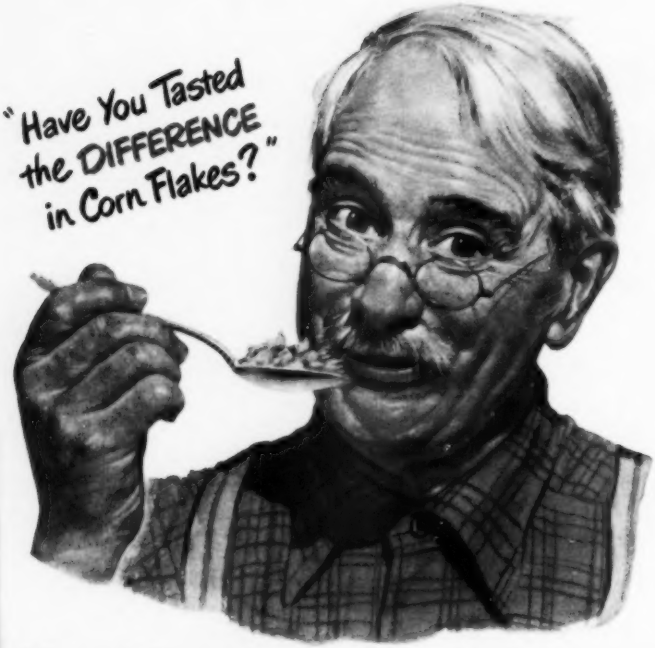
Name_____

Post Office_____ State_____

My IH dealer is _____

INTERNATIONAL HARVESTER

International Harvester Builds McCormick Farm Equipment and Farmall Tractors . . . Motor Trucks . . . Crawler Tractors and Power Units . . . Refrigerators and Freezers



Post-Toasting makes the difference in Freshness, Crispness, Flavor!

"They say you can't teach an old dog new tricks, but I sure learned something when I tried Post Toasties!

"There's a *difference* in corn flakes! Post Toasties are *crisper, fresher, better tasting!*"

"Post-Toasting" makes the difference! This special process adds *extra* tenderness, *extra* flakiness, *extra* goodness!

What's more, the new Trip-L-Wrap "Keep Fresh" Package brings you Post Toasties *guaranteed fresh.* Get Post Toasties from your grocer today. They're one of the famous Post Cereals.

A Product of General Foods

Don't say 'Corn Flakes,' say

Post Toasties

—the BETTER Corn Flakes

A Post Cereal GUARANTEED FRESH!

Triple your money back if they're not as fresh as any corn flakes you ever ate.

1 Sealed Bag Inside

2 Sealed Carton In Between

3 Sealed Waxed Overwrap

What you can

By Donald G. Cooley

Henry Wilson doesn't bed down the stock any more. He lets his son do it. Henry used to start wheezing every time he had a long session of barn chores. He figured he was allergic to what he calls "asthma dust," stirred up by currying, pitching, and general barnkeeping. He still does the milking and some other barn jobs, getting along fine as long as he doesn't overexpose himself to miniature dust storms kicked up in caring for stock.

If Henry had been violently instead of mildly allergic, his common-sense solution wouldn't have worked. In that case he might have had his doctor spot the specific substance that made him wheeze, and then "desensitize" him to it.

You can't just go out and catch an allergy. You have to be built for it, as Henry was. Farm families aren't any more subject to allergies than city people. But your living on a farm means contact with more allergy-causing things.

The big offenders are pollens and animal danders. Pollen comes from plants, dander from animals, and you can't put either out of your life and still make a living at farming. But you *can* strip the mystery from allergies and control them. If you need extra help, your doctor can give you a large measure of relief.

First, just what is an allergy? It's an abnormal reaction to a substance that gets inside your body. Your blood produces chemicals which sensitize you to this substance, in much the same way that a shot of vaccine immunizes you to smallpox. But in allergy the body is just too defensive, and when the foreign substance gets into your body, the cells of affected tissues literally weep. They pour out excessive fluid, and smooth muscles may be shocked into spasms, as in asthma.

While the mechanism of allergy is always the same, symptoms depend on what tissues are hit. If it's the nasal passage, you have hay fever; the bronchial tubes, asthma; the intestines, digestive

do about allergies

pangs. These are the more common allergies, but migraine headaches are also included, as well as eczemas and hives.

The trigger-pulling substances have to get *inside* the body, into the bloodstream, to cause trouble. How do they get there? You either swallow them, inhale them, or they find entry through the skin. Ragweed pollen is a good example. It is studded with spikes which stab your nasal membrane when you breathe it in, releasing its irritant like a tiny hypodermic needle.

You can't stop breathing or swallowing. Then what do you do about it? First, make sure you have an allergy. A full-blown case of seasonal hay fever diagnoses itself, but symptoms can be mild and unsuspected. Be your own detective. Track down clues that your doctor will later ask you. If your case is distressing, you can't do without him. But he can't do without you, either. You're a cooperating team.

Are your symptoms worse at night, or in the daytime? In the fields, or in the house? Do they disappear after a rain? After a weekend in the city, when someone else tends the livestock or runs the hay baler? Do you have headaches, intestinal griping, or hives after eating certain foods? Are your symptoms seasonal, or year around?

Such clues are a great help to your doctor in tracking down the specific substances that irritate you. A "summer cold" that hangs on and on suggests pollen allergy. If breathing is distressed at night all through the year, but comfortable during the day, house dust may be pulling an asthma trigger. *Seasonal* clues are important in pollen allergies, and who is more season-wise than a farmer?

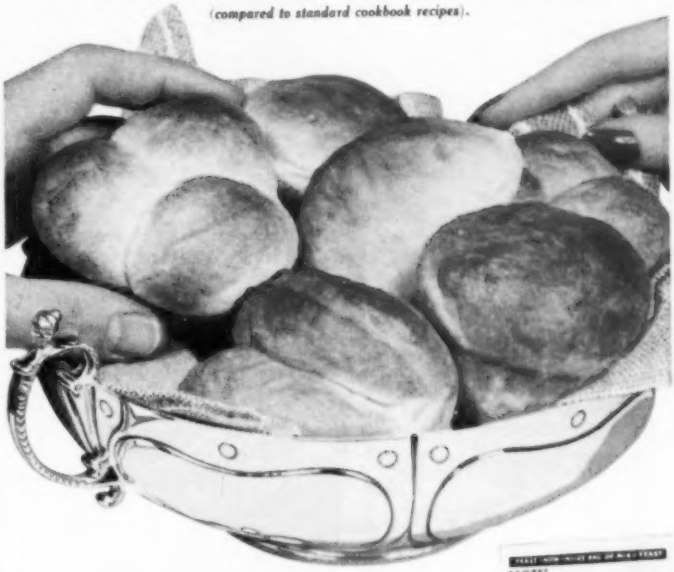
Hay fever, chief of the pollen allergies, has three typical seasons. In March, April, and May, many tree pollens flourish. Oak, elm, and cottonwood often

[*Turn to page 64*

"The real McCoy"

That's what your family will say when you serve them homemade hot rolls. You can now make them in ½ the time

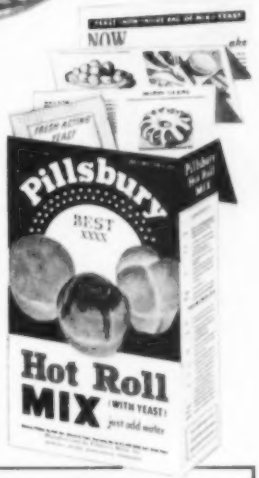
(compared to standard cookbook recipes).



Easy, quick, no experience needed with the new

Pillsbury HOT ROLL MIX

(with fresh-acting yeast)



Watch your family sit up and take notice when you come out with homemade hot rolls—yours, *all* yours.

No longer is yeast baking a matter of high skill and experience. It's now just a matter of adding water to Pillsbury Hot Roll Mix (and fresh-acting yeast). Easy, quick. And results are always sure.

Isn't this a fitting time to get across to your family *all* that the words "made at home" mean?

Pillsbury BEST XXXX Mixes

RECIPES right in the package show you how to make sweet rolls, doughnuts and other delicious baked foods.

You and Ann Pillsbury can make a great team

Dessert is a "breeze" with any of these!

1.

(TEMPTING FAMILY TREATS IN ALL 5 SURPRISE PACKAGES!)

OLD FASHIONED FLAVOR—NEW FANGLED EASE!

Now homemade ice cream almost makes itself! Just add milk and cream to "JUNKET" FREEZING MIX—*no stirring* while it's freezing! Makes wonderful frozen desserts with evaporated milk, too! 4 flavors . . . sundae-super with "JUNKET" QUICK FUDGE sauce!

2.

FUDGE IS SLICK—AND OH-SO QUICK!

Like the *best* homemade! 4 minutes to make—*no beating*—using "JUNKET" QUICK FUDGE MIX with butter and water . . . the only *pre-cooked* mix! For sauce or frosting, too! Chocolate and penuche.

3.-4.

BE AN ARTIST WITH RENNET DESSERT!

Easy to make—lemon rennet dessert! Easy to digest—this milk dessert's better than milk alone for children! 6 "JUNKET" RENNET POWDER flavors or unflavored "JUNKET" RENNET TABLETS.

5.

THIS DANISH DELIGHT IS SUMMER-RIGHT!

Cool currant-raspberry flavor in a new-style pudding "hits the spot" when the weather's hot! *Easy*—boil "JUNKET" DANISH DESSERT one minute with water, then chill. Serve it with cream or fruit.

"JUNKET" is the trade-mark of Chr. Hansen's Laboratory, Inc., for its rennet and other food products.

FREE Send for free recipes to "The Junket Folks", Department S70, Little Falls, New York.

. . . . . *for dessert variety use*

"JUNKET" BRAND FOODS

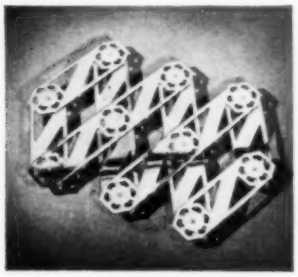
all different!
all easy, quick!
all delicious!

What's new in homemaking

Twin waffler pulls apart to bake two man-sized waffles at once. It has three heating units, one in each section of the

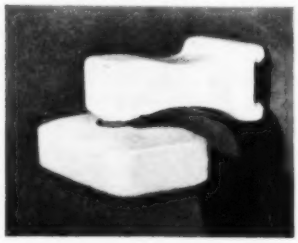
waffler. A light glows as the waffles bake, goes out when waffles are done. The chrome and steel waffler has Bakelite handles. At department, hardware, electrical stores, $16.95; or direct, $17.95, from *Finders Mfg. Co., 3609 South Michigan Avenue, Chicago 15, Illinois.*

A flexible trivet will protect your tables from hot dishes. The chrome Flextray is one-half inch high, 10 inches long



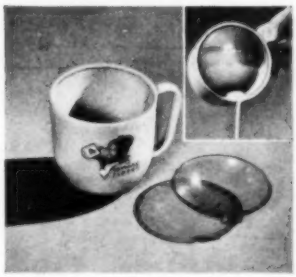
when closed, and extends to 22 inches. It can be used in any intermediate size. The legs are of a special, nonscratching aluminum alloy. Available in department stores, or direct, postpaid, $3.95, from *Northington, Inc., 510 W. Garfield Avenue, Glendale 4, California.*

Hang your soap up to dry with a magnetic soap holder. The magnet in the stainless steel or porcelain arm holds a



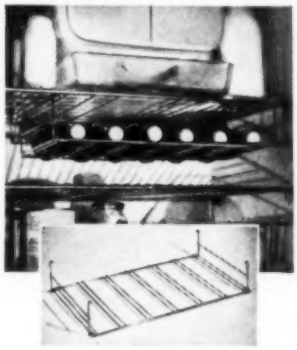
small, metal disc pressed into a cake of soap. Soap doesn't soften. Magnet is powerful, holds soap securely, lasts a lifetime. Postpaid, stainless steel, $1, or porcelain, $2, from *Independent Sales Co., Dept. SF, 723 Industrial Trust Bldg., Providence 3, Rhode Island.*

Tommee Tippee, child's mug, will delight parents. The bottom of the cup is weighted and the corners rounded. When



pushed over, the cup bobs upright again. A clear plastic disc, inserted in the top of the cup, adds a no-spilling feature. The disc has a slot for drinking and a hole for air; it keeps small fingers out of the cup and is easily removed for washing. Made of tasteless, tough, chipproof plastic, it has red base and cream sides. Check, money order, or C.O.D., $1, from the *Westland Die and Engraving Co., Inc., 833 E. 31st Street, Los Angeles, California.*

Save space in your refrigerator with this gadget that hangs six pop bottles high under the freezing compartment. Bot-



tles are easy to get at, without moving quantities of other foods. The spacesaver hooks securely to the shelf and hangs beneath it. Finished in corrosion-resistant chromium. Postpaid, $1.25, from *Miles Kimball, 5 Bond Street, Oshkosh, Wisconsin.*

[*Turn to page 16*

Stuck with a mess of crusty pans?

BRILLO

gives TWICE the SHINE in HALF the TIME!

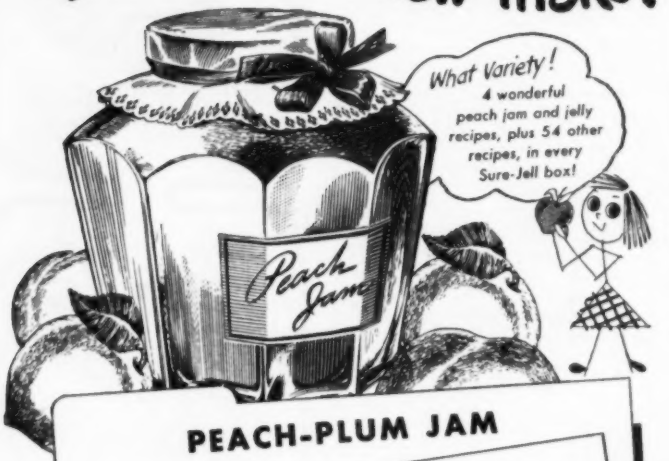
New "Scorchy Pan" Tests *prove* Brillo outshines all other types of cleansers tested! Shine-meters show Brillo gives aluminums *twice the shine in half the time.*

A square, metal-fiber Brillo *pad-with-soap* just whisks off scorch! And the *jeweler's polish* in Brillo soap gives the speediest shine yet! No scraping! No scrubbing! Brillo *guarantees* results. If Brillo fails to clean a utensil, you get a new one—*free!*

★ GREEN box — pads and cake soap
★ RED box — soap-filled pads

There's jeweler's polish in BRILLO

You, too, can teach a Fresh Peach brand new tricks!



PEACH-PLUM JAM

FRESH PEACH JELLY

HOMEMADE PEACH JAM

3½ cups prepared fruit
4½ cups sugar
1 box Sure-Jell

To prepare fruit. Peel and pit about 3 pounds soft ripe peaches. Chop very fine or grind. Measure 3½ cups fruit into a large saucepan.

To make jam. Measure sugar and set aside. Place saucepan holding fruit over high heat. Add Sure-Jell, then stir until mixture comes to a hard boil. At once stir in sugar. Bring to a *full rolling boil* and *boil hard 1 minute*, stirring constantly. Remove from heat, skim, ladle quickly into glasses. Paraffin at once. Makes about 8 six-ounce glasses.

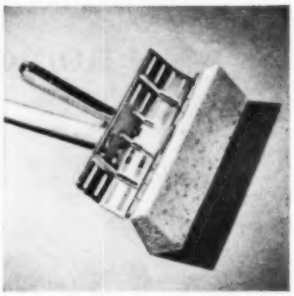
For Peach and Ginger Jam. Use above recipe, adding ½ cup finely sliced candied ginger to the peaches in the saucepan.

A Product of General Foods

There's magic in the word **HOMEMADE**

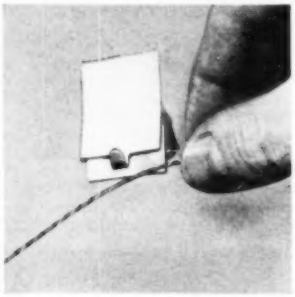
What's new in homemaking

[*From page 15*]



A built-in squeezer on the back of this cellulose sponge mop is brought over the sponge for easy wringing. The removable sponge can be used with the strongest soaps or antiseptics. Sponge refills, $1.49. Mop is available in department stores, hardware stores, and super markets, $3.95. *O-Cedar Corporation, 22 West 49th Street, Chicago, Illinois.*

This electric bun warmer is for popcorn, cereal, crackers, potato chips, waffles, pancakes, and casserole dishes. The warmer is polished aluminum with Bakelite handles. Operates on 110-120 volts. In hardware, department stores at $5.95. *The Toastswell Company, 620 Tower Grove Avenue, St. Louis, Missouri.*



No nails needed and no holes in your plaster when you hang your pictures with these picture hangers. They will hold 10 pounds, and are adhesive-backed to stick to most wall surfaces. Available in drug, hardware, department stores, at 25 cents for six. Or mailed postpaid, 24 hangers for $1, from *Roberts and Co., 4335 North Elston Avenue, Chicago, Illinois.* **END**

Make a Date with a "Rocket 8"!

"88"

THE BIG NUMBER WITH THE NEW LOW PRICE FOR 1950

Hottest number on the highway—
most talked about car in America—
that's the famous Oldsmobile "88"!
Now at an even lower price for 1950!
Thrilling "Rocket" Engine action!
Smart new Futuramic styling!
Oldsmobile Hydra-Matic* smoothness!
Now all yours at the lowest cost ever!
Take a demonstration drive tomorrow.
Just call your Oldsmobile dealer and . . .
Make a Date with a "Rocket 8"!

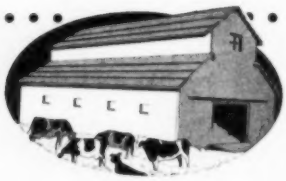
Compare it with any car on the road for performance—for driving ease—for *value*. You'll be dollars ahead when you Rocket Ahead in Oldsmobile's "88" —*at 1950's new low price!*

OLDSMOBILE

**Oldsmobile Hydra-Matic Drive, at reduced price, now optional on all models.*

A GENERAL MOTORS VALUE

YOU DESIGNED THIS Proslate ROOF



Bird Proslate Roll Roofing 19" wide is *your product*...designed with the special features that *you* asked for!

Here they are: 50 per cent greater headlap for *extra* sealed lap strength. Each lap is nailed and then sealed with Bird Quick-Set Cement... nails can't pop out because they're covered, and the roof is locked against roof deck movement and inside wind pressure. The cemented lap has proven tougher than tornadoes, and Proslate's rugged mineral surface is fire resistant and weather-proof.

Each roll of 19" Proslate comes equipped with plenty of nails and cement . . . a roof package you can't beat for quality and value. Invest in tomorrow . . . protect your farm with Bird Proslate quality today! For similar qualities in a smooth surface roofing, ask for Bird 19" Paroid Roofing.

Chicago BIRD & SON, inc. Established 1795

Bird & Son, Inc.
Dept. 32
1472 W 76th Street
Chicago 20, Illinois

Gentlemen:
Please send me full information about 19" Proslate and other Bird Roll Roofings. Please include the name of my nearest dealer.

Name _____

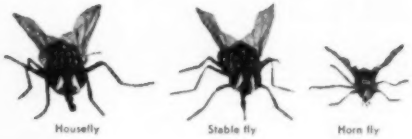
Street _____

City _____ *Zone* _____

State _____

Flies thrive on DDT?

Kill them with Lindane



Researchers never thought DDT was the final answer. New killers are sought

By James S. Ayars
Illinois Natural History Survey

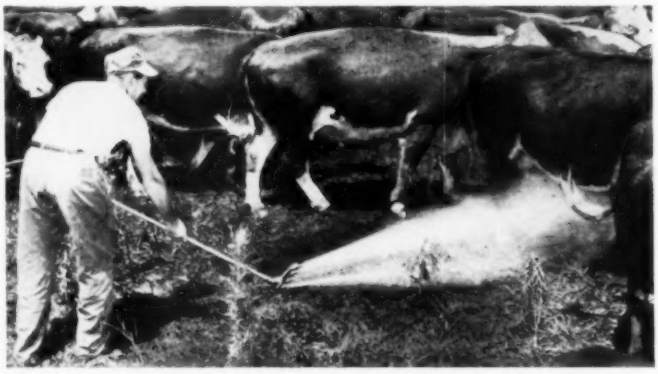
When DDT came into general use in 1946, many farmers thought they had their fly problems licked for good. With more stamina than any fly killer known before, DDT waded into the flies with both fists swinging. On thousands of farms throughout the United States, dairy cattle gave more milk, beef cattle put on weight faster, and little pigs slept more and were happier. Housewives found life pleasanter without their unwelcome summer visitors in kitchens and dining rooms.

But by the spring of 1948, California dairymen were complaining that, despite the use of DDT, they had more flies in and around their barns, milkhouses, and

[*Turn to page 104*

Individual flies are tested for their resistance to insecticides in this ovenlike device

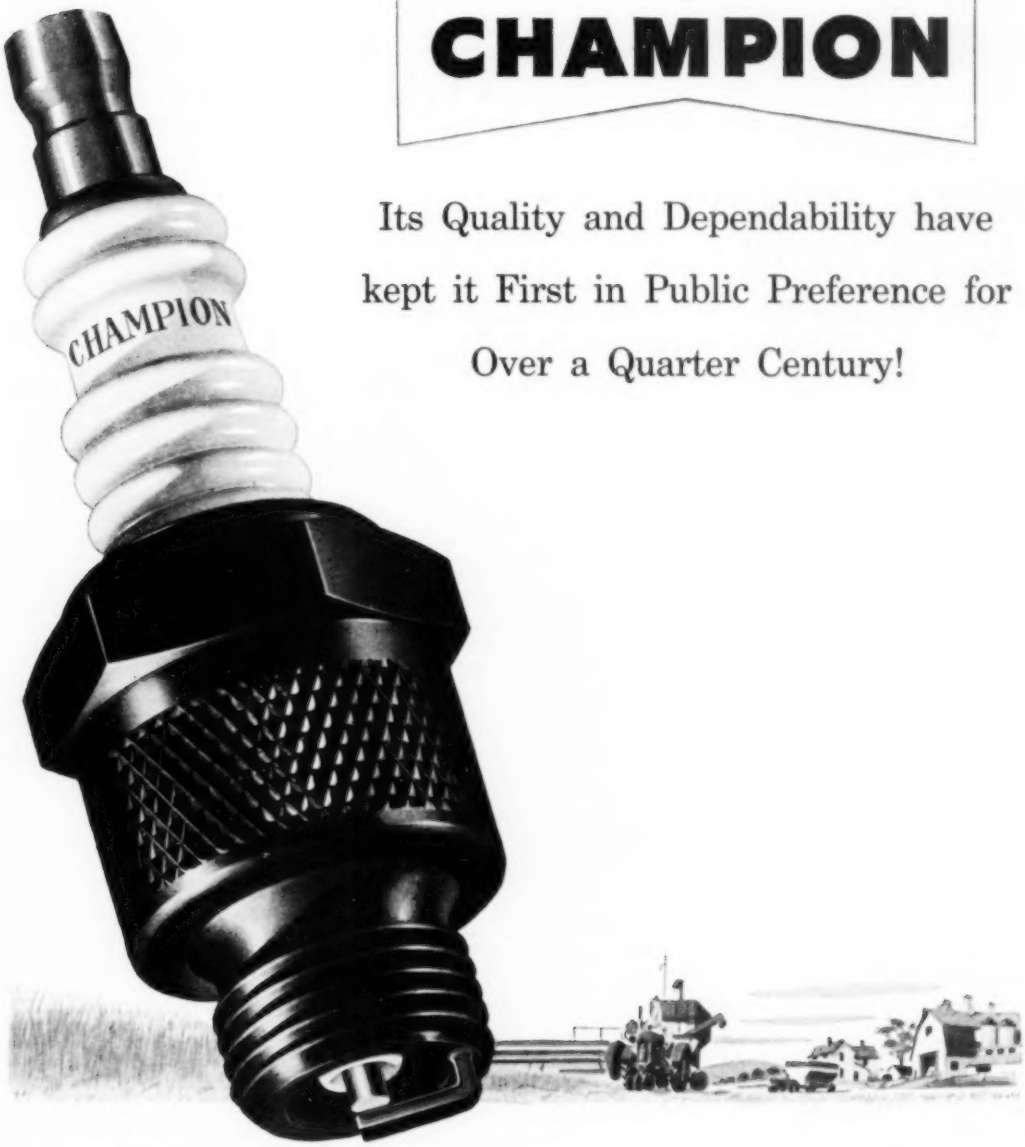
Cages of flies, each with own feeding vial on top, help research worker test poisons



Spraying beef animals with DDT for horn fly control. Horn flies have not yet shown resistance to DDT, though houseflies seem able to expose selves to it with little harm

CHAMPION

Its Quality and Dependability have kept it First in Public Preference for Over a Quarter Century!



BE A CHAMPION DRIVER . . . *Good Manners Make Good Drivers*

It's against the law, discourteous and downright dangerous not to dim or depress your lights. Good manners dictate dimming your lights *first!*

The driver who hogs the road by straddling the center highway line is a public menace. Common courtesy will prevent accidents here, as elsewhere.

Champion drivers keep their cars in tip-top shape by having their spark plugs checked regularly, and insisting on Champions when new ones are needed.

CHAMPION SPARK PLUG COMPANY, TOLEDO 1, OHIO

Listen to the CHAMPION ROLL CALL . . . Harry Wismer's fast sportscast every Friday night, over the ABC network

NOW! Dental Science Shows That Brushing Teeth Right After Eating with

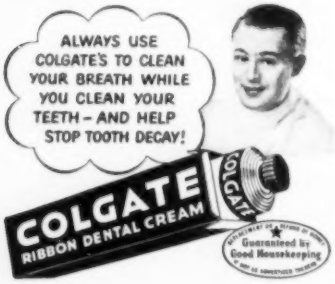
COLGATE DENTAL CREAM STOPS TOOTH DECAY BEST

Better Than Any Other Way of Preventing Tooth Decay According to Reports in Authoritative Dental Literature!

2 years' research at 5 great universities—case histories of hundreds of people who used Colgate Dental Cream right after eating—shows the Colgate way stops tooth decay best! Better than any other home method of oral hygiene known today! Yes, both clinical and X-ray examinations showed the Colgate way stopped more decay for more people than ever before reported in all dentifrice history!

No Other Toothpaste or Powder Ammoniated or Not Offers Proof of Such Results!

Even more important, there were no new cavities whatever for more than 1 out of 3 who used Colgate Dental Cream correctly! Think of it! Not even *one* new cavity in two full years! No other dentifrice has proof of such results! No dentifrice can stop *all* tooth decay, or help cavities already started. But the Colgate way is the most effective way yet known to help your dentist prevent decay.



THE FARMER'S Washington

By Richard Wilson

- Pay-as-you-go farm plan?
- Surprise in farm poll
- Folks will eat more meat

New plans. Congress is beginning to take an interest in two new types of farm plans. Secretary of Agriculture Brannan also is interested. He may brighten up his famous proposal with a pay-as-you-go feature.

The one new wrinkle Brannan halfway likes—and is having investigated—was proposed by Representative Robert Poage (Democrat, Texas), a member of the House Agriculture Committee. It provides for farmer contributions to a fund which would be used to insure prices.

This is unique if only for the fact that it would have the *farmer pay the government*, rather than vice versa. The idea is that farmers would pay into a fund something like 5 percent of their gross receipts on specific crops. The money would be used to stabilize prices. This sounds something like the old equalization fee of the McNary-Haugen plan. Funds collected from farmers probably wouldn't be enough to pay the whole cost of price supports.

But this plan would have the advantage of tying in farmers in a very real way with crop-reduction schemes. Having paid in their money, they would want to get their money's worth.

Another idea is being put forward by Senator Flanders of Vermont, himself an economist. He would go back to the idea that price supports were for use when farmers were faced with financial collapse. All acreage and marketing restrictions would be abolished. So would price supporting operations. But if prices dropped below 80 percent of parity, farmers would be paid a sum amounting to half the difference between the price they received and 80 percent of parity. Fifty percent of parity would be the lowest return a farmer could receive.

Thus the government would be a backstop against any ruinous setback in agriculture. But there wouldn't be any system to adjust production.

Both schemes seem a little lifeless when compared to the rosy promise of the Brannan Plan. That, of course, is the trouble with them from the political point of view.

What Ohio farmers think. Lots of folks believe the Ohio Farm Bureau poll of Ohio farmers gives a significant insight into current on-the-farm thinking. One unexpected result: The poll showed a full 32 percent of the farmers *wanted no government farm plan at all!*

There seemed to be a strong sentiment for amending the present act. Only 13 percent favored the act of 1949, under which we now are operating—but 50 percent believed it would be best to amend it. Most popular amendment was the establishment of a bipartisan farm board to work with and advise the secretary of agriculture.

What level of prices did they want the government to guarantee? Twenty-seven percent wanted no guarantee at all, 25 percent favored Mr. Brannan's level of 100 percent, 26 percent wanted a flexible system ranging from 75 to 90 percent of parity, and 38 percent wanted only a protection against severe depression.

On type of support, 39 percent wanted a combination of straight price supports for storable crops and production payments for the perishables. And 36 percent wanted *no* support program; 17 percent wanted support prices only; 8 percent wanted only production payments.

What to do with surpluses? Research to find new ways to use them seemed the best answer to 76 percent of the farmers. Sixty-five percent thought it would also be a good idea to store enough to stabilize our supplies a bit, and 66 percent thought surpluses should be widely used by relief agencies. Forty-six percent thought an animal agriculture would eliminate the surpluses, and 27 percent thought it wise to turn the other way and let the surpluses "take care of themselves."

New hired man. Sound waves may become the new hired man on your farm. The scientists at the Beltsville research center near Washington have found out that ultra high frequency sound waves, which can't be heard by humans, will knock off the corn borer moth. It also works on mosquitoes. Some bacteria in milk can be destroyed by sound waves. No process has yet been developed, however, to take the place of pasteurization. Now the scientists at Beltsville are busy bombarding hybrid seed corn to see if they can't speed up germination and increase yields. It doesn't look practical yet for daily use on the farm, but someday, who knows?

Meat. Here's some thinking from the top in the meat industry, which may be helpful to livestock growers. The meat men think the average American will eat about 150 pounds of meat this year, 5 pounds more than last year and 24 pounds more than in the 1935-39 period.

Generally speaking, the meat experts think beef and lamb prices will stay high. Pork may come down. Another interesting thing the meat researchers estimate is this: An average American works about 30 minutes to get enough money to buy a pound of bacon; an Irishman works 90 minutes; and it takes a Russian 466 minutes of work to buy a pound of bacon—when he can get the bacon! **END**

Now! Ford Trucks in biggest Economy Run ever made!

To demonstrate Ford Truck Economy

...THROUGHOUT THE UNITED STATES...IN EVERY IMPORTANT TRUCK-USING VOCATION ...IN YOUR KIND OF BUSINESS, WITH YOUR SIZE TRUCKS!

The Ford Truck Economy Run, most realistic economy study in truck history, is now under way throughout the United States.

It's extensive! Thousands of truck users from coast to coast are making the Ford Truck Economy Run over their regular routes. Every important kind of truck-using business is included.

It's all-inclusive! All Ford Truck models from 95-h.p. Pickups to 145-h.p. Big Jobs will participate under actual day-to-day working conditions. Detailed records will be kept on operating costs for a period of six months.

It demonstrates Ford Truck economy! The Economy Run will demonstrate for everyone to see, what Ford owners have known right along. Ford Trucks do more per dollar in every kind of truck-using business. And this means they will do more per dollar for you in your business!

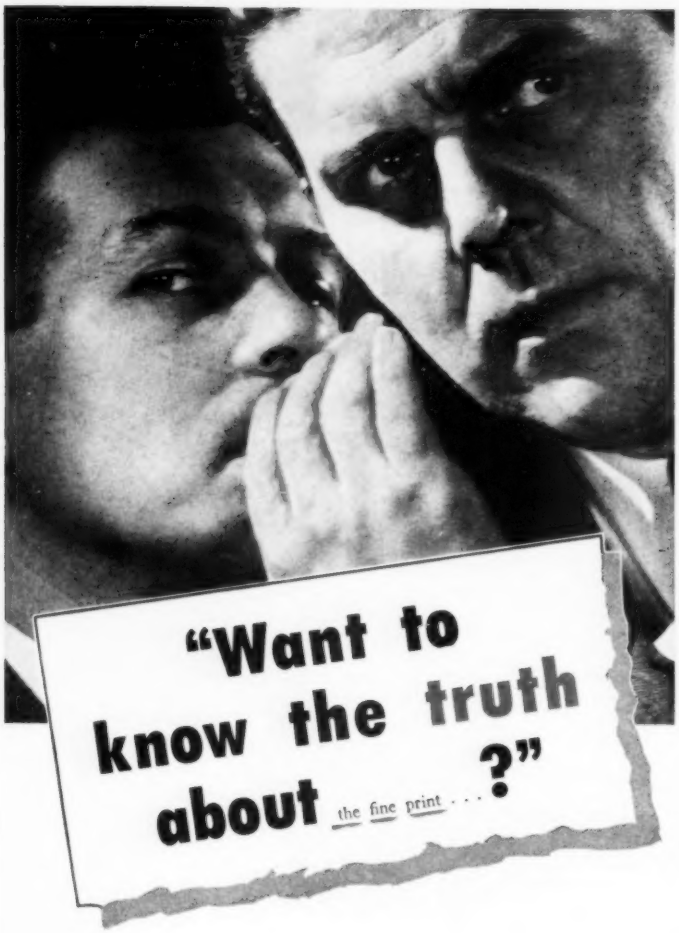
Economy—one reason why Ford is America's No. 1 Truck Value! And *Value* is one big reason why more and more truck users all over the country are switching to Ford. Ford Trucks are making the truck industry's biggest sales gains.

Switch to Ford Trucks to feel the difference—in your pocketbook. See your nearest Ford Dealer today!

In the long run, too—Ford Trucking costs less because

FORD TRUCKS LAST LONGER

Using latest registration data on 6,592,000 trucks, life insurance experts prove Ford Trucks last longer!



IT IS *sometimes* implied that insurance policies contain clauses "in fine print"—to enable companies to disclaim liability.

But do you know that in most states a Standard Fire Insurance Policy is in use . . . a policy adopted by the legislatures of those states only after review by state insurance departments and the insurance companies—to make certain that all provisions are in the public interest?

Do you know that the minimum-sized type which can be used is specified by law . . . and that it is the same-sized type as that used in the words "the fine print" appearing in the headline of this advertisement?

To protect yourself, buy your insurance through a competent agent or broker who has been examined and licensed by your state! Consult an America Fore agent. He can provide the coverage you need, and explain it, so you will know what is covered if you have a loss.

To locate an America Fore agent, call Western Union by number and ask for Operator 25

THESE FIVE COMPANIES COMPOSE THE AMERICA FORE INSURANCE GROUP

CONTINENTAL • FIDELITY-PHENIX • NIAGARA • AMERICAN EAGLE

FIDELITY AND CASUALTY COMPANY OF NEW YORK

America Fore
• INSURANCE GROUP •

News

Hay crusher speeds drying

One series of tests with a hay crusher at Cornell University showed that the crushed hay was almost ready for storage 8 hours after cutting. It had only 24 percent water compared with 35 percent for a regular mower. (Hay is not safe for storage until the moisture content is down around 20 to 23 percent.)

The hay, yielding 2 to 3 tons an acre, was a mixture of timothy and about 30 percent legumes (alfalfa, red clover, and alsike clover). The tests were in July.

Another series with second-cutting hay was made the same season. This hay averaged 76 percent moisture when cut. Eight hours after mowing, the crushed hay averaged 29.5 percent moisture, and hay cut with regular mower, 39 percent moisture.

In general, when the hay crusher was used in the regular haymaking operations, it has saved about one-half day in curing time. In most cases, hay cut in the morning can be put in the windrow in the afternoon, and the field baler started late the next morning. In extremely good drying weather, and when the hay can be cut early in the morning, it is possible to cut hay with the crusher and then bale it or store it loose late in the same day.

A question often asked is whether any nutrients are lost in crushing. Very little, if any, of the plant juices are squeezed out, says Dr. K. L. Turk. Actually, since the drying time is reduced and the time of exposure of hay to the weather is lessened, there should be a substantial saving in nutrients and an improvement in quality of hay.—*James S. Knapp.*

Weekly irrigation for alfalfa

A weekly irrigation gave almost a ton more alfalfa hay per acre than the use of water at two other time intervals. This was the result of an experiment-station study made at Afton, Wyoming.

Alfalfa getting a weekly irrigation received 11 waterings during the season, and produced 8,450 pounds of hay per acre. Alfalfa irrigated every 2 weeks—and receiving 6 waterings during the season—produced 6,275 pounds of hay. Alfalfa irrigated whenever it was felt the crop needed water got 5 applications during the summer, and produced 6,000 pounds of hay.

W. L. Quayle and R. J. Hyer of the Wyoming staff called the weekly waterings the outstanding one of the three, which have been under test since 1944. The weekly irrigation was used on grass mixtures in 1944 and 1945, and on barley put in as a nurse crop for the alfalfa in 1946. In all three years, the weekly system has outproduced the other two methods.—*Maurice R. Hoag.*

Have you tried *Successful Farming*'s Farm and Home Service Bureau for free, postpaid answers to your home and farm management problems? Why not write us about them now?

A DIRTY ENGINE

Burns Up $$s!

Mobiloil Helps Keep Your Engine Clean—
Call in Your Mobilgas-Mobiloil Man!

Risking engine deposits is like risking farm dollars. They can steal power, waste fuel, damage parts, halt work!

Why take chances? Drain engine oil regularly, refill with fresh Mobiloil for TRIPLE-ACTION performance.

Mobiloil is *anti-acid*, *detergent*, has *high V. I.* You get "*instant flow*" lubrication—*full protection* against corrosion, deposits—*maximum economy*, fewer repairs.

Why accept less? Keep all farm engines Mobiloil clean!

Mobiloil

Mobilgas
SOCONY-VACUUM

Get Famous Mobilgrease and Mobilube Gear Oil, too!

SOCONY-VACUUM OIL CO., INC., 26 Broadway, New York 4, New York, and Affiliates · MAGNOLIA PETROLEUM CO., Dallas, GENERAL PETROLEUM CORP., Los Angeles

1

Gentler *bleaching action.....*

added protection for linens! There's extra protection for linens, and baby, too, with Clorox! For linens—because Clorox is free from caustic, *extra gentle.* For babies—because Clorox makes linens *sanitary.* In addition, Clorox removes stains, makes white or color-fast cottons and linens snowy-white, color-bright. Let Clorox go to work protecting linens, and health, for you!

2

Greater *disinfecting efficiency...*

added protection for health! This wise housewife is protecting her family's health. And so easily! She simply includes Clorox in her routine cleaning of bathroom and kitchen. That's because Clorox not only removes stains and deodorizes, it *disinfects.* And Clorox does a *super* job of disinfecting . . . *kills germs quicker* than any other product of its kind! See directions on the label.

Copr. 1950, Clorox Chemical Co.

CLOROX AMERICA'S FAVORITE BLEACH AND HOUSEHOLD DISINFECTANT

There's no best way to make hay

Your neighbor's system may be all wrong for you. Here's how to judge just how much sweat you can afford to miss

By L. S. Hardin and R. W. Schoeff

Into haying, we put machinery, buildings, time, and varying amounts of sweat. Out of it, we get our winter supply of hay—some good, some poor. Research workers are making some progress in measuring the feeding value of the different qualities of hay which result. But we can place a dollar sign on the *costs* much more accurately.

First, let's examine the costs of harvesting field-cured hay. R. H. Wilcox, at the University of Illinois, has analyzed the findings of hay-harvesting studies in six Midwestern states. Averages from these studies show crew sizes and labor done to be those in the chart below.

These figures don't tell the whole story, of course. Even if quality of hay were the same for all five of the methods, low man-hours per ton and low total cost don't always go together. Here, for example, are the approximate 1948 values of the haying equipment involved in each of the methods:

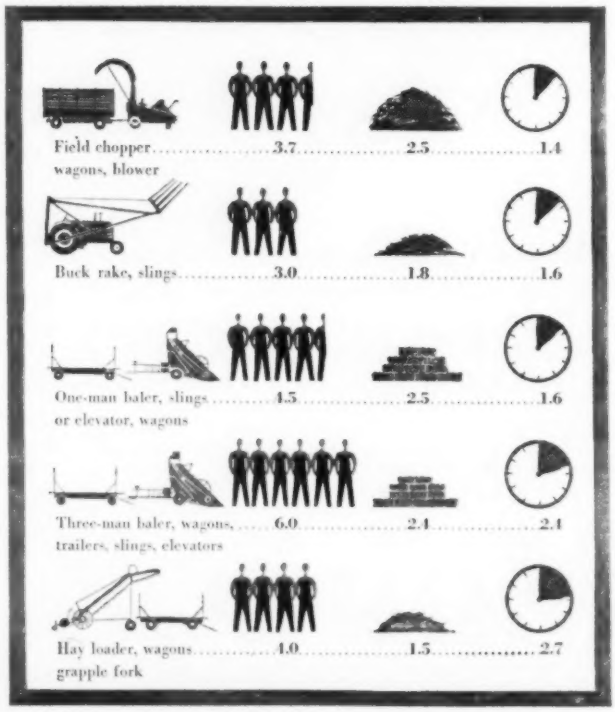
Field chopper	$1,500 to $3,200
Buck rake	150 to 250
One-man baler	1,600 to 2,800
Three-man baler	1,700 to 2,350
Hay loader, wagon racks	700 to 900

When we realize those investments should be charged off in around 10 years, we have high annual machinery depreciation costs for some of the newer methods. So you'll want those machines to do a lot of work each year.

Adding labor and equipment costs together, we came out with these general conclusions in a study in Indiana:

[*Turn to page 70*

Which system is best for you? Consider investment, and this chart



THERE'S A BIG DIFFERENCE IN FARM TRUCKS

HERE'S PROOF

TRUCK BUYER'S GUIDE

½ to 2 tons

How leading makes of trucks compare in twelve major features that insure greater dependability, longer life and lower maintenance.

FEATURES	GMC TRUCK	TRUCK "A"	TRUCK "B"	TRUCK "C"	TRUCK "D"
Power and efficiency of VALVE-IN-HEAD ENGINE	YES	YES	NO	NO	YES
TOP HORSEPOWER in normal operating range	YES	NO	NO	NO	YES
LEADS IN USABLE TORQUE	YES	NO	NO	NO	NO
FULL-PRESSURE LUBRICATION of all main bearings and piston pins	YES	NO	NO	NO	YES
SYNCHRO-MESH TRANSMISSION with Cushion Disc Clutch	YES	YES	Some Models	YES	YES
Easy-Turn Recirculating BALL-BEARING STEERING GEAR	YES	YES	NO	NO	NO
SEPARATELY MOUNTED FENDERS, GRILLE AND RADIATOR for economical repair	YES	NO	NO	NO	NO
TORSIONAL DAMPENER for engine smoothness	YES	YES	YES	NO	YES
BUILT-IN RADIATOR EXPANSION TANK—prevents coolant loss	YES	NO	NO	NO	NO
DOUBLE-WRAPPED FRONT SPRING EYES for front axle stability	YES	YES	Some Models	NO	NO
TOCCO-HARDENED CRANKSHAFT Dynamically balanced	YES	NO	NO	NO	NO
STEEL-BACKED AIRPLANE TYPE MAIN AND ROD BEARINGS	YES	NO	NO	NO	NO

No other make comes close to these 12 features you get in a truck-built GMC

BEFORE you buy a new truck, study the chart at the left. It lists twelve engineering advances you need in even a light pickup—extra-value features that sinew a truck for years of extra work.

You'll note that GMC alone gives you all twelve. No other make offers more than five—some only one or two. Only GMC's are truck-built from bumper to taillight!

These plus values explain why a GMC will give you years longer service—with lower maintenance and repair cost. It's a *real truck*—built by the world's largest exclusive maker of commercial vehicles.

Your GMC dealer will be glad to show you the ruggedly handsome new 1950 models—in a wide range of types and sizes to fill every farm need. Measured in years of service, a GMC is your most economical buy.

GMC Truck & Coach Division of General Motors.

GMC

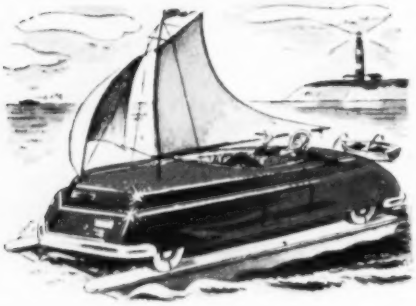
GASOLINE & DIESEL TRUCKS

FROM ½ TO 20 TONS

GM

GENERAL MOTORS

If your car feels like *this*... it's time for MARFAK Chassis Lubrication



THAT CUSHIONY FEELING LASTS LONGER WITH **MARFAK!**

Next time your car or truck needs lubricating, get a *Marfak* job at your nearby Texaco Dealer *and notice how much easier it rides and handles.*

That extra "cushiony" feeling is positive evidence that tough, long-lasting *Marfak* lubricant is cushioning the vital bearings against wear. That's the kind of protection you want on rough roads.

Marfak forms a "collar" around open edges of bearings, sealing out dust and dirt that can ruin them. *Marfak* won't jar out, drip off or cake up. It resists water-wash.

Tests Prove Custom-Made Havoline Motor Oil Reduces Ring Wear 60% to 70% Over Even Good Heavy-Duty Motor Oils

Make no mistake, Custom-Made Havoline Motor Oil surpasses ALL Premium motor oils. In fact, laboratory tests prove that it reduces piston ring wear 60% to 70% over even good heavy-duty lubricating oils and has no equal for rust protection in any engine. Change to Custom-Made Havoline and get more power, longer engine life, lower upkeep costs. Visit your nearest Texaco Dealer. You'll find him *the best friend your car or truck ever had.*

TEXACO

THE TEXAS COMPANY
TEXACO DEALERS IN ALL 48 STATES

Texaco Products are also distributed in Canada and in Latin America

How many deathtraps on your farm?

Don't kid yourself! There's at least one deathtrap on every farm, dozens on some. And most of them are set to make life short for your children. This is National Safety Month, and high time you did some checking and unsetting of traps. The list that follows will start you on your search for danger spots. Remember, how long your children—and you—live might depend on how safe you keep your farm. Check for these traps now.

Trap 1

Careful, son, that knife is sharp! Out of sight, out of mind is a good rule to follow for sharp knives, gadgets, matches, explosive gas, and kerosene. Teach children the danger of hot ranges and hot water

Trap 2

The higher he climbs, the harder he falls. Windmill and haymow ladders, playing in haymows, strawstacks, water tanks, grain bins, swinging on the hay rope should be tagged forbidden play places on your farm

Trap 3

Guns go on the forbidden list, too. If possible, keep out of sight and reach of children. Teach older youngsters how to use firearms correctly. Be a good example—handle guns as if they were loaded

[*Turn to page 80*

FORD INTRODUCES DARING NEW TRACTOR ADVANCEMENT

ONLY FORD TRACTOR HAS THE PROOF-METER

Ford TRACTOR

FOR THE FIRST TIME—

ACTUAL PROOF OF YOUR TRACTOR PERFORMANCE RIGHT BEFORE YOUR EYES

No other tractor manufacturer has ever given you anything like this Ford Tractor Proof-Meter. None has ever dared to make it so easy for you to measure tractor performance, both *before* you buy and *after* you buy.

Here, truly, is the *one* way to realize the fullest obtainable profit from your tractor.

Five Instruments in One

(1) The Proof-Meter indicates engine speed, (2) P.T.O. speed, (3) belt pulley speed. (4) Tractor speed in miles per hour in first, second, third and fourth gears. (5) Number of hours worked by the tractor.

***PROOF* of Engine Performance**

Peak pulling performance and fuel economy on most field work are reached at engine speeds of around 1750 r.p.m. Proof-Meter lets you know you're at this speed.

Nothing Like It Ever Before On Any Tractor—The Proof-Meter tells you the things you need to know in order to operate your tractor most efficiently and economically—to keep it always in the pink of condition—and to get the best results on any job.

Always before you've had to guess. But not any more—not with the Ford Tractor!

Real PROOF of Performance

Before your eyes you have proof always that your Ford Tractor is giving you the performance for which you paid.

The Proof-Meter will help you get best performance out of plows, harrows and other implements to operate P.T.O. and belt-driven machines at their most efficient speeds. It helps keep records to reduce operating costs and increase your farm profits.

Get a PROOF Demonstration—Right now, your Ford Tractor dealer is ready to give you a tractor demonstration unlike anything you ever saw before. It will pay you to make a date for a PROOF demonstration right away.

***PROOF* of Right Tractor Speed**

In operations like mowing, raking, spraying, planting, etc., it is important to hit and hold the right tractor speed. With the Proof-Meter, you can *know* that tractor speed is right.

***PROOF* of Correct P. T. O. Speed**

You must know P.T.O. speed is right when the driven machine is in operation, to be sure P.T.O.-operated machines are doing their best work. The Proof-Meter tells you at a glance.

***PROOF* of Belt Pulley Speed**

Belt-driven machines work best and last longest when operated at the specified belt pulley speed. With the Proof-Meter, you can operate at correct speed. No separate counter needed.

***PROOF* of Hours Worked**

No guesswork as to when to lubricate, service or adjust vital parts. Proof-Meter indicates number of hours worked. *Proof* that the Ford Tractor "works more hours—saves more hours."

Dearborn FARM EQUIPMENT

IF YOU HAVEN'T DRIVEN A NEW FORD TRACTOR LATELY YOU'VE A SURPRISE COMING!

Since the announcement of the present model 8N Ford Tractor, a great tractor and a great value have been made greater still—with the new Proof-Meter—with 12% more drawbar horsepower and pounds pull—20% greater belt horsepower—and many other new features—36 important improvements in all. Why not get behind the wheel of a new Ford Tractor—soon?

DEARBORN MOTORS CORPORATION • DETROIT 3, MICHIGAN

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Ford Farming MEANS LESS WORK . . . MORE INCOME PER ACRE

Now...thanks to PHILCO...

There's 3 times the Quality in my kitchen!

Quality in my Refrigerator

See the magnificent new 1950 Philco refrigerators at your dealer's now . . . luxury equipped from 7 to 14½ cubic feet. You'll see true zero-zone, full-width built-in freezers—fully adjustable shelves—the new Quick Chiller . . . and many other exclusive Philco features. At prices that make Philco America's top refrigerator value.

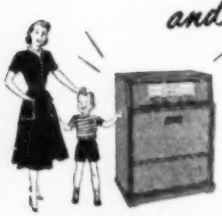
Quality in my Electric Range

Smokeless broiling at last with the sensational new Philco "Broil-Under-Glass" Electric Range. No soot, no smoke, no stain! Two superb ovens—fully automatic Banquet and Thrift Oven. Deluxe automatic controls cook entire meals automatically. See all the great Philco Electric Ranges for 1950.

Quality in my Home Freezer

From 4 to 30 cubic feet—140 to 1050 pounds food capacity—chest models and uprights—temperatures as low as 15° below zero for sharp freezing—frozen storage at scientifically approved zero-zone temperatures. The greatest value in home freezers today.

and for the whole family—Quality in our Radio-phonograph!



Here's your *greatest value in 3-speed* radio-phonograph. Plays all records, all sizes, all speeds fully automatically. Philco Super-Tone Reproducer gives finest tone ever achieved from recorded music. With new Philco super-sensitive AM radio. In beautiful Mahogany or Walnut veneer cabinet.

PHILCO *Famous for Quality the World Over*

all around *the* house®

Here are tips to help you save yourself some time, steps, and work

● Our small boys have avoided many bruises on the edge of their sandbox since we've placed their sand inside the circle of a large, discarded tractor tire. Painted a bright color, this adds a gay note to their corner of the yard.—*Mrs. E. M., Nebraska.*

● **A rubber heel nailed on each "foot" of our household ladder prevents slipping on unearpeted floors. It keeps the ladder from marring them, too.—*Mrs. S. S., Minnesota.***

● Use a handy half-bushel basket for serving popcorn at Fourth of July parties. Make a lining for the basket from bright red oilcloth. (This can be removed easily and washed after use.) Then, enamel the outside of the basket and add gay designs, such as a scallop around the top or firecrackers. For serving bowls, I decorate coffee tins to match the basket. —*Mrs. H. J., Nebraska.*

● **When making pot holders, I had no "stuffing" handy, so I tried using a few of the strainer pads from our filter-type milk strainer. They quilt beautifully, wash equally well, and are already cut for round pads. I intend to try them in a fancier "dress" to use as hot-dish pads on the dining-room table.—*Mrs. A. H., Kansas.***

● When a recipe calls for crumbled potato chips, cooky or cracker crumbs, there's no fuss or muss if you place them

in a transparent plastic bag, then roll quickly with a rolling pin, as shown. You can see when the crumbs are just the right consistency, and there's no spilling. A zipper-top refrigerator case is ideal; otherwise, simply fold the open end over and fasten it firmly with a paper clip. —*Mrs. C. B., Iowa.*

● **To prevent furniture scratches on your floors, remove the cork sections from bottle caps and glue to the legs of offending chairs.—*Mrs. A. K., Iowa.***

● Treat your next batch of cupcakes to a simple and tasty frosting that's made in a minute. Just add a thin chocolate-covered cream mint to the top of each cake as you take the pan from the oven. The mints will melt and add an unusually delicious touch.—*Mrs. J. P., Wisconsin.*

● **When bedroom-slipper soles wear out before the tops, I trace the outer edge of each slipper on heavy mattress ticking. Then I cut around the outline and press a ¼-inch edge under. I sew the new sole over the old one, tucking and tacking the edge under carefully. The result looks fine, wears well, and slides easily across the floor. For added comfort, the soles can be innerlined with cotton padding or comfortable sponge rubber cut to fit.—*Mrs. C. L., Oklahoma.***

● Pockets on dresses and aprons won't tear at the corners if you lay a small pleat in the top of the pocket before sewing it on. This leaves plenty of room to put your hand in without strain on the corner.—*Mrs. G. M., Kansas.*

● **A flat curtain rod such as used for draperies makes an ideal shoe rack if fastened about four inches from the floor.—*Mrs. E. B., Maryland.***

● Machine-stitch down the center of your cloth tape measure (a long, loose stitch) to keep it from tangling easily. Makes it last longer, too.—*Mrs. E. S., Wisconsin.*

● **A pair of spice cans made these attractive salt and pepper shakers for our picnic table. I covered each with a scrap of plaid**

wallpaper (as pictured), added a cut-out initial of white, and varnished over them. There are all kinds of decorative possibilities, I've found. Gay peasant designs enameled on gift-bound pairs draw a raft of compliments.—*Mrs. J. M., Iowa.*

● Though our own children are grown up, I still have a box where I put any cutouts that come on cereal boxes, paper dolls from Sunday comic strips, and other little trinkets that youngsters might enjoy. When friends come calling with their families, my surprise box keeps all the children royally entertained.—*Mrs. A. B., Wisconsin.*

Successful Farming will pay $5 for each helpful suggestion published. We cannot return unused suggestions.—Editors

she's in love with a wonderful buy!

Who could *help* loving these wonderful, wonderful Pequots... sheets that look so beautiful, feel so refreshing, retain their smooth, firm texture through *years* of extra wear!

You just can't find a better buy than plus-service Pequots! More than 144 threads to every inch... extra strength in every thread, yet soft and smooth to the touch... that's what makes Pequot plus-service sheets ideal for luxurious comfort and maximum service.

If you love value... if you love sleeping comfort... if you love good-looking, long-wearing sheets... stock up on plus-service Pequots... specially priced for White sales... *now!* Traditional White Dusty Rose • Green • Peach • Pink • Airway Blue • Candlelight Yellow.

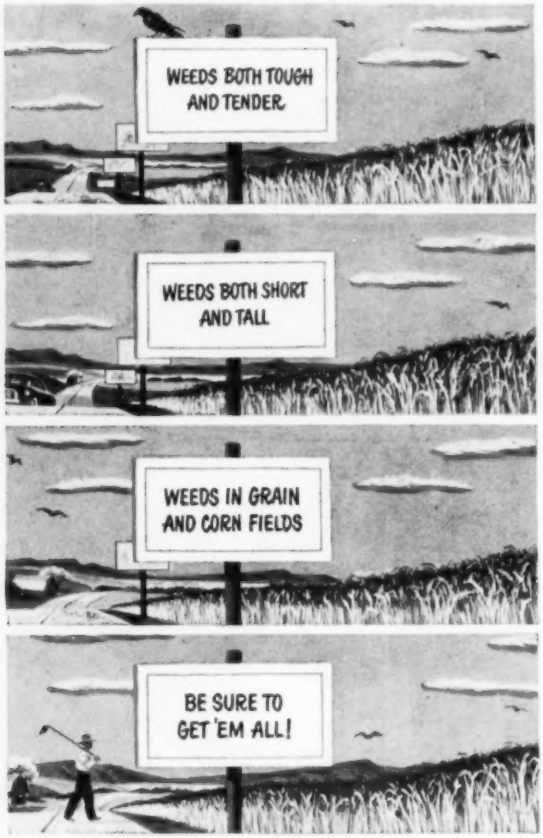
Get yours now at the
white sales

PEQUOT PLUS-SERVICE SHEETS PILLOW CASES

Pronounced "PEE-KWAT"

PEQUOT plus-service SHEETS

PEQUOT MILLS, SALEM, MASS.
Also makers of exquisite Pequot Percales



YOU can make short work of weeds, including brush and undesirable grasses. Yes, be sure to get 'em all! Whether your weeds are in corn, small grains, peas or pasture—or along fence rows, ditch banks or roadsides—there's a Dow Weed Killer made especially for the job. Where there are woody brush and poison ivy to be controlled—stumps and brush stubs to be sprayed to prevent resprouting—or rank grasses to be "treated like weeds"—your dealer has the *right* Dow Weed Killer. What is more—he has the latest information on proper application to save you time and money and *get results.*

8 weed killers for nearly every farm purpose

- 2-4 Dow Weed Killer, Formula 40
- Esteron 44
- 2-4 Dow Weed Killer, Powder
- Esteron Brush Killer
- Esteron 245
- Dow Selective Weed Killer
- Dow General Weed Killer
- and the new DOW SODIUM TCA 90% for control of grass

When you buy weed killers—buy DOW DIAMOND quality

DOW WEED KILLERS

USE DEPENDABLE DOW AGRICULTURAL CHEMICAL PRODUCTS

• Weed and Grass Killers • Insecticides • Fungicides • Seed Protectant • Plant Growth Regulators • Grain and Soil Fumigants • Wood Preservative.

AGRICULTURAL CHEMICAL DIVISION
THE DOW CHEMICAL COMPANY
MIDLAND, MICHIGAN

DOW CHEMICALS
INDISPENSABLE TO INDUSTRY AND AGRICULTURE

Buy hail

If so, how much? And when? Most folks buy too much, or none at all. Here is how to judge

By H. L. Tinley

It has been my observation that most hail insurance policies are written for twice what they should be, or not written at all. They seldom hit the happy medium. Yet, when well written, a hail policy can be a lifesaver. Like a spare tire, a conservative, well-written hail policy will get you going again when you need help the most.

Right after Bob Anderson got out of the Army, he took over his dad's farm in Pawnee County, Nebraska. The first year—1946—he bought hail insurance. Plenty of it—the premium was almost $300. He got through the season without a loss. He then figured, because of its cost, he would pass up hail insurance next year. In 1947, he had a 100-percent loss, and no insurance. In 1948, he had a 68-percent loss, and no insurance. In 1949, an 80-percent loss, and no insurance. On November 28, 1949, he arrived in Omaha broke, and two weeks later he picked up a job in a gas station. Hail had put him out of the farming business.

Anderson's case is extreme, of course. Hail doesn't usually behave like that. But he isn't the first one put out of business by hail, nor will he be the last. He was unlucky, but good luck is three-fourths horse sense. A small hail policy would have paid his bills, and wouldn't have been expensive. Had Bob Anderson had such a policy, he would be a farmer today.

Insurance differs from any other item you buy. You must buy it before you need it. Being the biggest "gambler" in the world, a farmer has to look on the bright side of life, or he wouldn't be able to stand the strain of being a farmer. Probably because of this lucky feeling, few farmers—two-thirds of them, in fact—see any need for hail insurance. The other third go overboard and buy too much insurance—far more than is practical.

Here is a common-sense way to figure how much you actually need:

Every year, a farmer has expenses which must be met whether or not a crop is raised. If you must have $1,200 every year to pay the bills, this is the figure you should consider first when buying hail insurance. Not the value of the crop, which might be two or three times this figure. There is no arguing the fact that the first

insurance?

$1,200 you take from your farm is more important than the next $1,200.

Whether you know it or not, you are your own best insurance salesman. No one knows your own problems like you do, and it's a cinch you won't try to sell yourself something you don't need. Knowing your own expenses, you can determine how much hail insurance you need much better than any salesman can do it.

Often, a man will argue convincingly that he has gone 8, 10, or 12 years without a loss, so is way ahead of the game. Actually, it all averages out. The man who insures pays a little each year, and gets it back the year hail strikes. This is the "average" man—if there is such an animal. When one runs out of luck as Bob Anderson did and hits three hail years in a row, the arguments about being ahead of the game have a hollow sound. Hail insurance smooths out the losses, and the premiums are tax deductible year by year.

It's an odd thing about hail insurance rates—they seem to vary with the altitude. The higher the farm, the higher the rate. Moving westward, particularly across Nebraska, the land rises steadily to the mountains and hail rates rise steadily to the skies. Finally, in the western part of Nebraska, the rate hits $18 for each $100 insurance—as compared to $3 for every $100 insurance in the eastern counties.

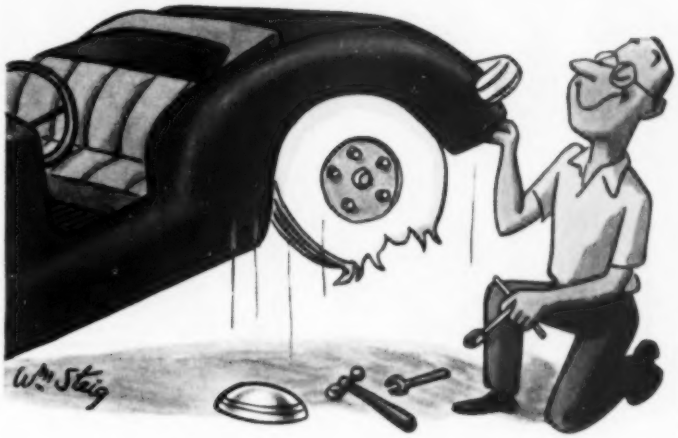
In other, more level sections of the Cornbelt, hail rates vary and depend on the number of losses the companies have experienced in the area.

Hail policies are in a class by themselves. No other policies are quite like them. Though hail insurance companies may vary in the way they do business, there are some standard features about all their policies. Once a policy is written during the growing season, it cannot be canceled. And that brings up a point worth remembering: Hail insurance is no more expensive at the beginning of the season than it is at the end. If you are going to insure, insure as soon as you are reasonably sure of a crop.

Hail insurance can't be bound. That is, you can't call your agent on the phone

[*Turn to page 71*

He's feeling his CHEERIOS...



-the OAT CEREAL that needs No Cooking!

Yes ... a ready-to-eat OAT CEREAL with a whale of a lot of *GO* power!

Betty Crocker of General Mills, America's best-known food authority, asks: "Have you discovered the breakfast goodness and energy value of a bowlful of Cheerios, milk and fruit?" Cheerios are so appetizing—like crunchy little doughnuts with a wonderful fresh toasted-oat flavor. Get a package.

A new day is here in lowest price cars!

IT'S 4 TO SEE INSTEAD OF 3

The Studebaker Champion is one of the 4 lowest price largest selling cars in America!

$1487.50

STUDEBAKER
CHAMPION
CUSTOM 6-PASS.
2-DOOR SEDAN
AS SHOWN

This is the South Bend delivered price and includes Federal Tax

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It does not include transportation from South Bend, or state and local taxes, if any

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Comparably low prices on other Studebaker Champion Custom models —4-door sedan, 5-pass. Starlight coupe, business coupe

Prices subject to change without notice

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Dr. A. E. Erickson and Clarence Neff look over records of tests before and after vaccination with Brucella M in the Neff herd

You'll want this new Bang's vaccine

Michigan farmers are enthusiastic over Brucella M, and hope for new era in Bang's control. Test results are being reviewed by the U.S.D.A.

Sometime in July, several reports will go to Dr. B. T. Simms, chief of the U.S.D.A. Bureau of Animal Industry. These reports will cover the findings of widely scattered, federal-state experiments on a promising new Bang's vaccine called Brucella M.

Widely used in Michigan. This vaccine has done well for nearly three years with approximately 75,000 cows in Michigan herds. But, so far, it has been used only experimentally outside the state. Whether the Bureau will license Brucella M for interstate sale depends largely upon how it views these new experimental findings.

Performance of the vaccine under the controlled federal-state experiments has been cloaked in secrecy. So we can only guess as to how well the immunity from Brucella M has held up when challenged with the virulent Bang's germs under controlled experimental conditions.

Why it looks good. Here are the reasons why you'll want this vaccine, assuming it passes the latest tests:

1. Your vaccination program need not be limited to calves. Farmer after farmer has reported the vaccination of cows in all stages of pregnancy, with no abortions.

2. Blood reaction (titer) returns to normal soon after vaccination. Animals showing clean, and not in the incubation stage at the time of vaccination, will pass a clean test 60 to 90 days afterward. No experience has shown any blood reaction from the vaccination if the interval has been at least 90 days.

3. Vaccination does not cause a sharp drop in milk production.

4. Neither calves nor mature stock go off feed following vaccination with Brucella M.

5. The vaccine gives rapid immunity.

Claims based on farm findings. Admittedly, that sounds like a lot for one vaccine. And Dr. I. F. Huddleson of Michigan State College, who developed the vaccine, would be the last to make unqualified statements as to its merits. However, these claims come from the Michigan veterinarians and farmers who've used Brucella M under every kind of situation.

Experience has shown that a herd can be cleaned up in fairly short order if a fellow will vaccinate everything 8 months of age on up, follow a program of disposing of reactors, and faithfully vaccinate replacement stock and the calves as they get to around 8 months. And there are dairy farmers in Michigan who have stayed in business, even keeping as high as 50 percent reactors, by using Brucella M on clean stock.

Michigan farmers who have used Brucella M don't mind talking about the Bang's situation in their herds. Case histories are easy to get.

Saved this man's herd. One example of Brucella M's effectiveness was found in Ionia County on the farm of G. E. Peterson. Bang's started in this Holstein herd in September, 1946. Peterson immediately began a test-and-slaughter program, but kept losing a cow nearly every month. He decided to try Brucella M in July, 1947. Today, he has a completely clean herd and feels that "Brucella M vaccine has prevented our herd from being completely wiped out." [*Turn to page 94*

Courtesy, caution, and

your best bets for tractor safety on the highway

Driving onto highway without stopping to look both ways first is dangerous. The big picture at the right shows another menace to safety. If you must pull two wagons onto the highway, look both directions before you set up a road block like this one

Half of the road belongs to someone else. Don't take more than your share as the farmer in the above picture is doing. Take the time to adjust your implement to the road. If you can't make the adjustment, drive on the shoulder and leave half of the road clear

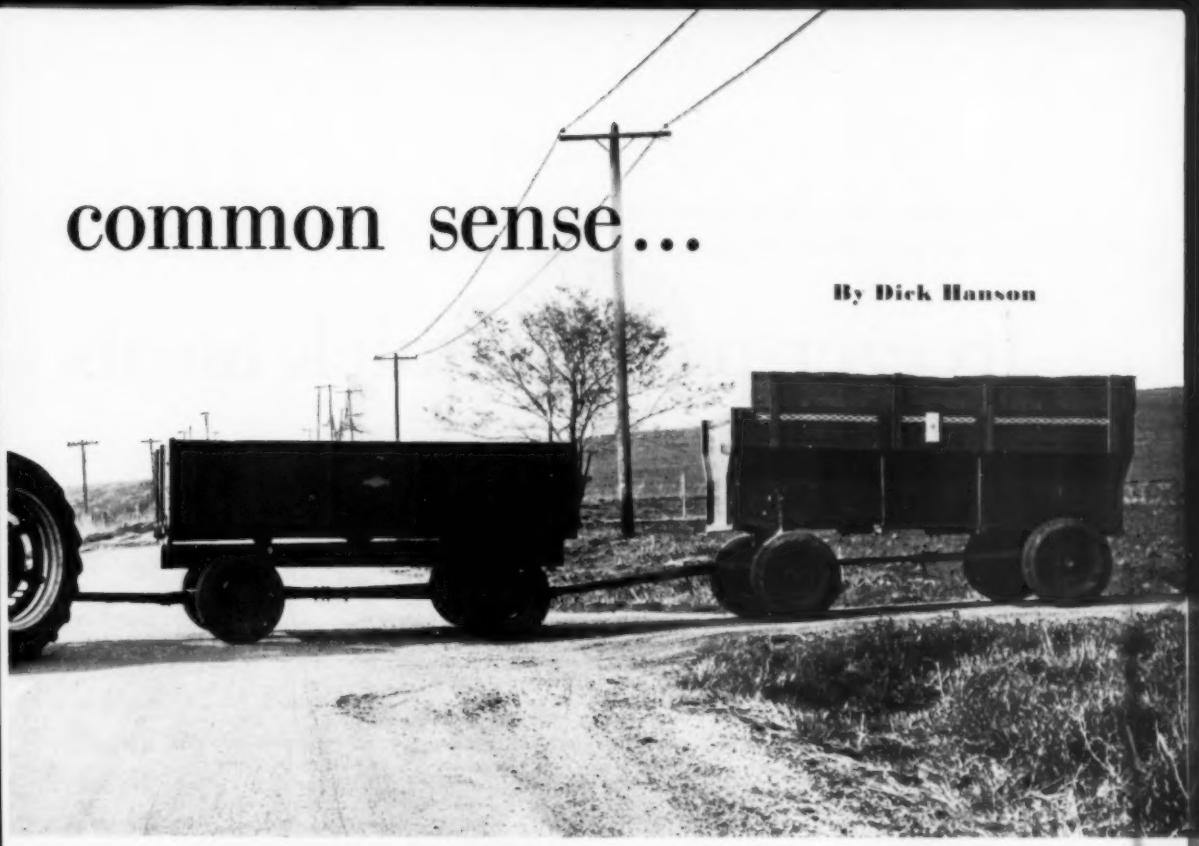
Swaying trailers are as dangerous as implements that are too wide for the road. The illustration above isn't a poor photograph; it merely shows how much of the road is occupied by a trailer swaying badly. A good, strong hitch will keep your trailing vehicles in a straight line

Driving off the road has been the cause of many accidents. Tractors won't hold the road like an automobile. Don't let the comparatively slow speed of a tractor fool you; it only takes a few seconds to drift off the road. Keep your eyes on the road ahead for safe driving

Tractor brakes should always be locked together for highway travel. Never apply the brake on only one wheel as the farmer in the picture above is doing. Braking one wheel at high speed will throw the front end of the tractor into the ditch or across the center road line

common sense...

By Dick Hanson



Youthful tractor operators should never drive on the highway. The age when youngsters can handle tractors on the highway is not determined by years, but by experience. Teach your youngster how to operate a tractor safely in the field. Drive on the highway yourself

Ordinary field hitches aren't made for high-speed highway travel. The farmer pictured above will pay plenty to have his wagon repaired. If an automobile had been approaching, and the wagon had rolled across the road, the damages would have been more serious

Wheels set wide are fine for high speeds but are dangerous on the highway. It's too easy to let that left rear wheel drift over the center line. If you must travel on the highway with the tractor wheels set wide, stay on the shoulder of the road and reduce your traveling speed

Is it coming or going? Turning back one of the headlights on a tractor to serve as a taillight gives the picture above. Make sure you have the proper lights for highway travel at night. But, if at all possible, do your highway traveling during the daytime. END

You always have plenty of food for family and guests—invited or unexpected—when you have

freezer-packed quick meals

These dishes come ready-prepared from the freezer

Concoction fit for a teen-ager's date

Ice-cream sundaes for parties and everyday

What happens when your husband comes in asking, "Can we have dinner in 20 minutes—I have to get the tractor repaired"?

Or when he comes in at half past 11, saying, "We're having two extra men for dinner"?

Or when a former neighbor travels 60 or 70 miles to see you and stays past mealtime?

Or when a shopping excursion lasts late, and you come home to a hungry family?

Or when you've done a man-sized, all-day house-cleaning job and are just too tired to cook?

Or when you want to go away for a day or two, or perhaps a week?

A freezer holds the answer to all of these questions. And be it an early dinner, extra men, former neighbors, shopping, house cleaning, or a trip, I work my freezer for every inch of space in it. I prepare and freeze a part of these meals on less busy days, a week or so in advance. Then, come what may, I'm ready for it.

And besides, if you follow these rules, a freezer will save you money—in fact, it will pay for itself in food savings:

- Use it daily.
- Fill your freezer with things your family really likes. Don't freeze foods you don't serve frequently.
- Label everything that goes into the freezer. Indicate type of food, date, and amount of food in the package.
- Package foods in amounts for your family and make some company-sized packages.
- Never throw away leftovers.
- Group similar foods in your freezer.
- Keep a record of the amounts of food in your freezer and the dates the food was put in.
- Never stuff your freezer with meat only.
- Keep an eye out for meat, vegetable, and fruit bargains.
- Plan menus; freeze whole meals in one package.
- Wrap foods carefully in moisture- and vaporproof material, necessary for retention of moisture. Follow instructions in freezer booklets and United States Department of Agriculture bulletins.

But aside from these tremendous savings, there are other outstanding advantages. To me, they are my own savings in time and energy—and the fun my family gets out of the freezer.

Since I have had my freezer, my teen-agers can entertain their young friends as never before. Instead of staying in town, they bring the gang out. There is always a plentiful supply of ice cream and a variety of sauces in the freezer, from which they can concoct sodas and sundaes that would make a professional soda-jerk envious.

And a rainy day [*Turn to page 60*

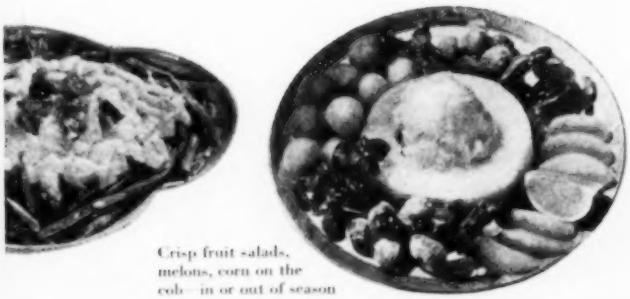
By Gertrude MacDonald

Tea rings, biscuits, breads—ready to bake

Cakes, cookies, pies for jiffy desserts

Hearty main dishes, leftover specials

It's baking day at the home of Mrs. Cleo Paine of Bondurant, Iowa. Daughter-in-law Mrs. David Paine wraps pies in aluminum foil, while grandson Gary helps put a cake, protected by a commercial bakery box, in the freezer. Cookies shown are placed on cardboard and are wrapped in transparent freezer paper for easy storage



Crisp fruit salads, melons, corn on the cob—in or out of season

Six healthy, hungry children mean a lot of kitchen work for Mrs. Skeele. Roger and young Edwin make it a point to be right on hand when fresh bread comes from the oven

Son Leon washes up in the men's own rear washroom, on his way in from the barn. Men have a dressing room and shower, too

Everyone works at the Skeeles', and everyone does it cheerfully. Linda dusts the stair rail and minds Edwin

Duane Skeele regards farming as a business and keeps careful records. The house remodeling included this big office

The Skeeles make money even on cheap milk

How? By cutting costs with top-notch pastures and hay, and feeding it to good cows. Farming 500 acres of New York State land and milking 100 cows keeps everyone busy. But they find time for a full and happy life, too

By William Ward

If you had been riding with me along the winding road in the big dairy country and had spotted the attractive farmstead pictured on the cover of this issue of *Successful Farming*, likely you would have said, "There's a successful dairy farmer."

The white house with dark green shutters, the newly painted red barns, and the fine crops on the hill overlooking the village of Fabius, New York, seem to say, "They make farming pay." Just how Mr. and Mrs. H. D. Skeele and their family have done this and what it has meant in terms of good living on their Hill 'n' Dale farm is told for you here.

When they bought the land 25 years ago, it was far from being the farm you see today. Duane Skeele describes the place in this fashion: "It was nothing but goldenrod, milkweed, burdock, brush, trees, and a rickety old house and barn." He and Edna, his soft-spoken, attractive wife, have built something from nothing through hard work and perseverance—both in remarkable quantity.

Beginning in his early twenties Mr. Skeele worked, on shares, a farm up the road. He saved his money until at age 26 he could buy for himself and his bride a fairly large part of the present 340-acre farm. As his bank balance built up, he added another 10 acres, then 40, then 60. Spare time then was

The Skeeles get along together, enjoy gathering the whole family in the big living room. East from windows, there's a wide, beautiful valley view

There are lots of good-night kisses—and lots of wild whoops, too—at bedtime. This is when those six big bedrooms pay off. Days aren't long enough for Skeeles

Are you up at four in the morning? The Skeeles are, for there are 100 Holsteins waiting. Harvey, Roger, Mr. Skeele, and Leon all pitch in, and job seems light

only a distant dream for the Skeeles.

As I talked with the Skeeles at the dinner table, they told me about clearing the land and about their first big project—building the barn that you see back of the house—and this in 1932 and 1933 when the price of milk was only about $1.25 a hundredweight.

Much of their time and skill has gone into home as well as farm improvement. When the Skeeles remodeled their home in 1944-45, they tore off all but the front four rooms and practically started over. Their beautiful, 13-room home now provides plenty of living space—and playing space, too—for their six children.

Attractively but simply furnished, every room looks lived in. The large modern kitchen, the dining room with pine ceiling beams, the front room with its large fireplace and bay window, the combination den and office, the bathrooms, and the six bedrooms all give the impression of good planning and comfortable living. Mrs. Skeele is spared some mopping and cleaning because the wash, shower, and cloak rooms for the men are in a hall near the back door. Moreover, her husband can make his frequent trips in and out of his office without tracking through a single room of the house.

Naturally, Mr. and Mrs. Skeele are proud of their home. [*Turn to page 72*

Color bright, color right

By Kay Scott Jones

Decorating a kitchen is a fun job! No other room in the house permits the use of such vivid colors, clever designs, or bold contrasts. The right use of color will make your kitchen ever so attractive!

The examples on these pages were planned to help you solve some of the problems your own kitchen might present.

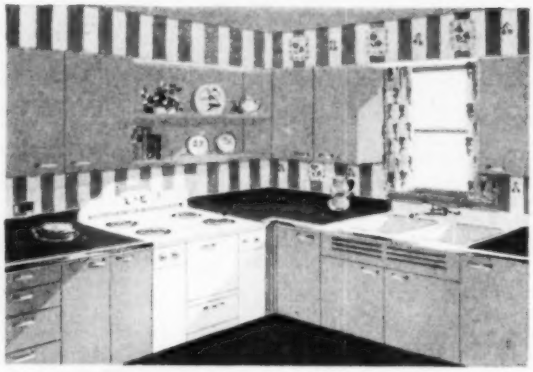
Square kitchen with low ceiling: If you have a kitchen of this nature, use boldly striped wallpaper to make the room look higher. A plain stripe, such as used in the top illustration at right, will give ceiling height. To make the room more interesting, put the plain stripe on three walls and put a matching stripe with a floral design added on the fourth wall. This makes one wall more prominent than the others and thereby detracts from the squareness of the room.

To "raise" a low ceiling even more, use the same light color on the ceiling and all the cabinets. Use a dark color for floor and counter tops to keep them "down," thus making the ceiling look higher by contrast.

Small kitchen: You don't have to confine yourself to only light colors to make a small kitchen look larger. You can achieve the same result by using *light and dark colors* so they create horizontal lines around the room. See middle illustration at right. Here dark walls and dark floors emphasize the light wood cabinets and create horizontal lines of contrasting color. A light, bright color is used on ceiling and counter tops to reflect light from windows. The result is a larger-appearing room than actually exists.

Large kitchen with high ceiling: Big kitchens too often look cold and barren. At the lower right is a scheme to correct this.

In the illustration, the ceiling and the base cabinets are painted the same dark color to pull the two together, thus "lowering" the ceiling. The wall cabinets are done in a light color to add a contrasting band. This further cuts height. Room size generally is decreased by using strong color contrasts and bold, bright wallpapers.



Square kitchen with low ceiling

Small kitchen

Large kitchen with high ceiling

The Richard Snedecors of Rhodes, Iowa, had a too-high ceiling in their old kitchen. To "bring it down" they used bands of color so the eye would travel around the room rather than from floor to ceiling. Notice how the different colors in the wallpaper, cabinets, wall tile, and linoleum create pleasing horizontal lines

This small kitchen with a high ceiling needed to appear larger. Spaciousness was created by using only two colors in continuous horizontal bands around the kitchen. The horizontal lines also helped to "lower" the ceiling height. Bright fruit designs below cabinets add a much-needed pattern and personality

This kitchen was not only small, but dark. To make it light, white was used exclusively for walls and cabinets. Size was increased by accenting all possible horizontal lines—dark green linoleum floor, long greenery box, red counter tops, red molding, and yards of apple-patterned chintz along the window wall. END

Maraschino Ice
Blueberry Revel
Cinnamon Candy
Banana
Cherry-Lime
Red Raspberry
Peppermint Stick
Pineapple-
Grape
Mint Chocolate Chip
Lemon-
Pineapple

Cool and delicious

Ice creams, sherbets, ices—all unusual, all good, all as refreshing as a cool shower. Your refrigerator and you can make them in nothing flat. There's bound to be a favorite treat for your family in the group

By Margaret Hegerfeld

Cinnamon Candy Ice Cream

Serves 6 to 8

Scald . . . . **3/4 cup milk**
Add . . . . . **1/4 cup cinnamon candies**
1/8 teaspoon salt
Stir until dissolved.
Cool and partially freeze.
Beat . . . . . **3 egg whites,** until foamy
Add . . . . **1/2 cup apple jelly,** gradually, beating until stiff.
Beat frozen mixture until fluffy.
Add it to egg whites.
Fold in . . **1 cup heavy cream,** whipped
Pour into refrigerator trays. Freeze.

—*Mrs. David Lutz, Wisconsin*

Banana Ice Cream

Serves 6

Combine **1 cup mashed bananas**
1 cup orange juice
1/2 cup lemon juice
1 1/2 cups sugar
1/4 teaspoon salt
Fold in . . **2 cups heavy cream,** whipped
Pour into refrigerator trays.
Freeze until firm.

—*Dorothy Hofbauer, Nebraska*

Blueberry Revel Ice Cream

Serves 6

Combine **1 1/2 cups crushed blueberries**
3 tablespoons lemon juice
6 tablespoons sugar
1 cup heavy cream
Chill 15 minutes.
Beat . . . . . **3 egg whites,** until stiff
Fold into chilled mixture.
Turn into trays; partially freeze.
Whip in chilled bowl until fluffy.
Return to trays; freeze until firm.

—*Mrs. A. D. Trochinski, Minnesota*

Red Raspberry Ice Cream

Serves 6

Combine **1 1/2 cups crushed red raspberries**
3 tablespoons lemon juice
6 tablespoons sugar
1 cup heavy cream
Chill mixture 15 minutes.
Beat . . . . . **3 egg whites,** until stiff
Fold into chilled mixture.
Turn into trays; partially freeze.
Whip in chilled bowl until fluffy.
Return to trays; freeze until firm.

—*Mrs. A. D. Trochinski, Minnesota*

Maraschino Ice

Serves 6

Combine **2 cups water**
1 1/2 cups sugar
Boil 10 minutes.
Soften . . . **1/2 teaspoon gelatine** in **1 teaspoon cold water**
Add gelatine to sugar syrup, stirring until dissolved.
Cool.
Add . . . . . **1 cup grapefruit juice**
1 cup pineapple juice
1/2 cup maraschino cherry juice
Turn into refrigerator trays.
Freeze until partially firm.
Turn into chilled bowl.
Whip frozen mixture until fluffy and smooth.
Fold in . . **1 egg white,** beaten stiff
Return to trays.
Freeze until firm.

Variation: The above is decidedly unusual and different in ice flavors. For those who like a less-sweet ice, here is a variation:
Omit pineapple juice.
Increase grapefruit juice to **2 cups.**

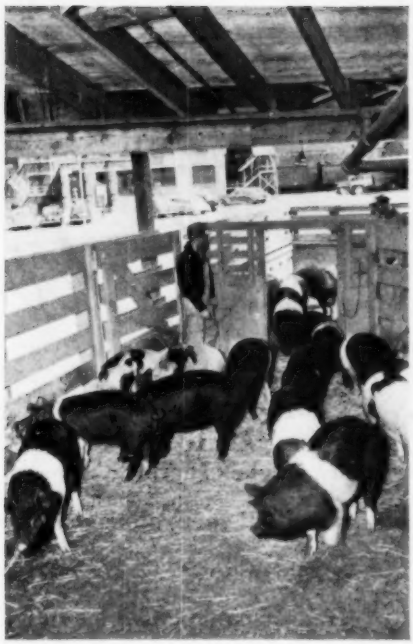
—*Miss Anne Shelley*

[*Turn to page 76*

Here's a way to

get more money for your hogs

Produce the right kind; then sell on a new plan which recognizes the difference in value of live hogs



1. Philip Hand (left) unloads his hogs without realizing that, within just a few minutes, they will get special consideration and a special price

2. Walter Weiditz, alley buyer (left), shows Philip ➔ (also standing) just why he thinks this bunch of hogs is worth more than most porkers which come through the alleys. They're uniform, within right weight bracket, trim, have a moderate finish, and are of the right length to make good carcasses

By C. E. Hughes

Soon after Philip Hand had backed his truck up to the hog unloading dock, he ran into a pleasant surprise. Instead of getting the day's quoted price for hogs of this weight, he walked away from the pay window with $9 more than he had expected.

Naturally, he wanted to know what it was all about. The packer buyers lost no time in explaining. Philip's hogs, they told him, had been good enough to qualify for their Special Grade, something new in livestock marketing. And they were paying him a premium of 25 cents per hundredweight on 18 of the 19 hogs.

His hogs rated the Special Grade because they were of the right weight, were trim and smooth, had good conformation, and carried a degree of finish consistent with high cut-out performance. The buyers could tell by looking that these hogs would yield a good carcass, and they wanted Phil to share in the rewards for "getting the job done" in the feedlot.

What happened to Philip Hand is beginning to happen to more and more farmers who bring their hogs to the Cedar Rapids, Iowa, or Albert Lea, Minnesota, plants of Wilson & Co. And, according to present indications, this plan of paying a better price for a superior hog is receiving serious consideration from some of the other packers; in fact, the Oscar Mayer Packing Co. for several months has been promoting a premium price plan for select meat-type hogs.

And there's talk from reliable sources that one or two of the other packers already are doing special test work on relationship of the live hog to cut-out performance. They are training their buyers to do an accurate job of estimating thickness of back fat, length of carcass, and yield of lean cuts—all while live hogs are still in the alley—then paying the farmer accordingly.

For years, farmers have been urged to improve the market-hog type. This has been done with the thought of producing a practical "combination" barrow which will do well in the feedlot and, at the same time, be less lardy and yield a higher percentage of lean cuts. Live-hog and carcass demonstrations were held extensively to show producers what was meant. Practical experience with the slop bucket helped, too.

But what happened? The next time the farmer's load of hogs went to market, they brought about the same price as the others in their particular weight bracket.

This method of paying the same for all hogs in a given weight bracket is often called "buying on averages." It's easier than making price allowances, but does not offer any market incentive toward further swine improvement.

Before the war, this method of buying was less of a problem for either producer or packer. At that time the price of lard was well above the price of hogs. But now, with lard about 7 cents a pound less than the price of live hogs, it's a different story. This [*Turn to page 108*

Photographs by Marion Pease

3. Just one hog is sorted from this drove of 19. It had only a leg injury. Few should need sorting if drove is to rate a premium

4. Weiditz writes out the scale ticket, showing that this drove of market hogs is good enough to win top premium of 25 cents per hundredweight

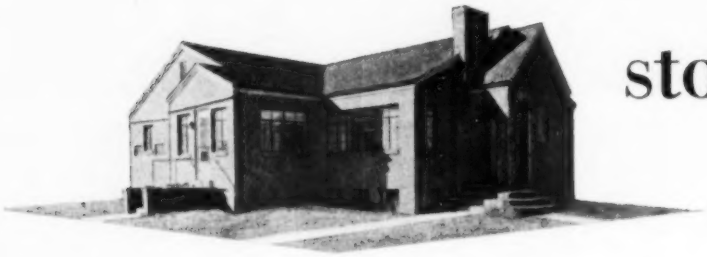
5. All smiles, Philip Hand receives the check, which is $9 more than he had expected when his truck left the barnyard

The boys in the Schrock family like to entertain their friends frequently as overnight guests. To provide that extra bed, a pulldown wall bed was built into their knotty-pine bedroom

The stairway down from the back entry and kitchen is so wide and light it hardly seems possible it actually leads to a basement. Canned foods are stored on one side; work clothes on the other side

Central storage hall in the house has this spacious closet near bedrooms and living room—for vacuum cleaner and bedding

Here's a house full of storage



Was there ever a woman with soul so dead, who never to herself has said: "Where on earth shall I put *this*?" Here's a house with an answer for her, a spot for everything

By Jean Power and Margo Feld

Photographs by Suter, Hedrich-Blessing Studios

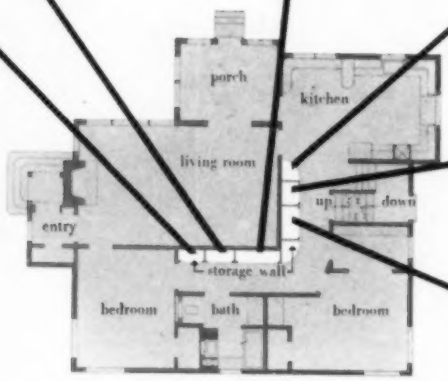
Somehow, the materials needed to live well multiply through the years much faster than one's living quarters expand. You've heard the "plan-your-storage" plea many times. Yet when it comes to actually building or remodeling a home, living space seems so precious that storage needs usually play second fiddle to a bigger-and-better living room.

But here's one family who is making fullest use of both living space *and* storage. (See floor plan and pictures.) Every inch of every room was planned to provide spacious, comfortable quarters for each member of the family, with a special emphasis on individual storage needs. All this is found in the new, brick farm home of Mr. and Mrs. George Schrock and their family, who

A drop shelf gives the odds and ends a spot of their own. It provides a place to wrap packages right where materials are handy

Luggage, all Christmas decorations, out-of-season sports equipment are kept in this cabinet, ready for use at a moment's notice

Planning desk, handy and efficient for Mrs. Schrock, is next to kitchen. Drawers are fitted like files for magazine clippings, recipes, and patterns



Dimensions of home, 52' 6" x 39' 8"

Table linens, seldom-used kitchen equipment are stored next to planning desk. Counter top makes sorting of linens easy

Tall, narrow cabinets are just right for cleaning equipment, ironing board, sewing dummy. Notice shelves for cleaning supplies

live just outside of Hazelton, Kansas.

After chatting with the "Mr. and Mrs." for a few minutes, you realize this engineered household was no accident. As Mrs. Schrock puts it, "Five models and 10 years are about what it took." By "models" she means just that! From bits of cardboard, paper, and a bottle of glue, scaled models of their home-to-be came to life on the kitchen table. By building tiny replicas of the furnishings and placing them where they wished, windows and closets became a functional part of each room, placed to fit furniture needs as well as living needs.

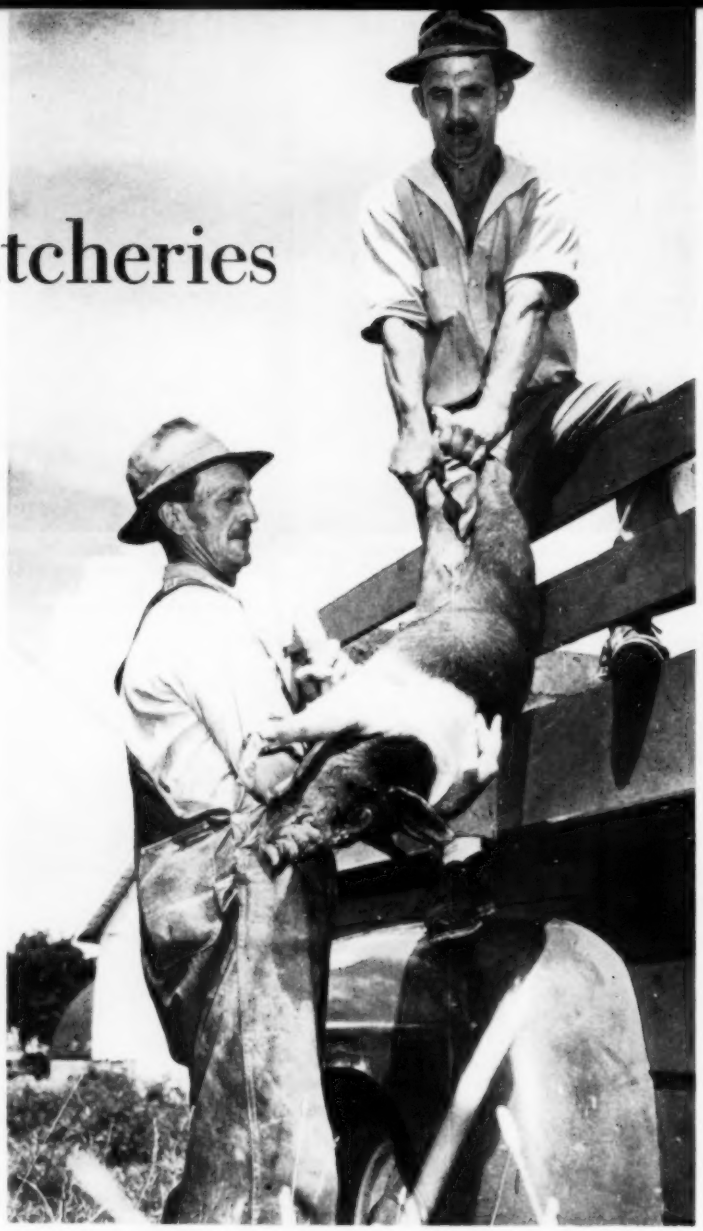
After 10 long years of such careful planning, the house was built on the crest of a rolling hill surrounded by fields of wheat. It's low and long, to escape the strength of powerful Kansas winds. Its kitchen boasts a clear view of the premises. Its basement is airy and dry, with knotty-pine paneling throughout to add further warmth and comfort.

The results of the Schrock planning are found in the storage chests under the breakfast-nook benches, in the kitchen cabinets which are shelved and partitioned to house all the different items used in that area.

On one side of the kitchen, hidden behind a sliding door, is a motor-driven dumb-waiter. It's planned to carry wet laundry from the utility room up to the back door, to carry finished ironing up to the kitchen, or canned fruits and vegetables down to the storeroom. [*Turn to page 84*

Can pig hatcheries serve you?

Maybe they can, for this new business is spreading rapidly and is supplying good, healthy feeder pigs at reasonable prices



Up he goes into the truck, then off to the farm of a customer. This feeder pig is held by Al Haller (left) and John Fredenberg (at right)

By E. L. Quaife
Iowa State College

Some farmers have found it increasingly hard to raise healthy pigs on their farms. They may find it more profitable to order pigs for May or June delivery, when the pigs can be put directly on clean pasture. Such a plan enables these farmers to avoid the housing problem, the maintenance, and the care and feeding of a bunch of brood sows.

Too, in this specialized age, some farmers may find they can spend their time more profitably on dairying or grain production, rather than being bogged down with farrowing chores and the critical weeks that follow.

There's where the pig hatcheries come in. Such cases provide them with customers. Some pig hatcheries already are in operation, with others in the planning stage.

To date, the pig hatchery idea and the selling of weanling pigs has progressed most in the more or less feed-deficient areas. Missouri, Wisconsin, the Dakotas, and, lately, Canada have been the most prolific sources of feeder pigs for the corn surplus areas.

The idea of the pig hatchery, however, is taking hold in such heavy feed-producing states as Iowa, and more production units are expected soon.

A pig hatchery represents specialized production, much the same as a chick hatchery. Its aims are to produce a large number of weanling pigs to sell at weights of around 40 pounds to the man who wants to feed them out from that point to market weight.

I have been visiting several pig hatcheries in Wisconsin and Iowa, and here's the way the situation shapes up:

Al Haller of Sun Prairie, Wisconsin, produces 1,200 to 1,600 weanling pigs every year and says he cannot begin to fill the demand. An organization in Ohio recently contacted him, asking for as many as 3,000 pigs every year.

M. M. Thompson and sons of Winnebago County, Iowa, are in their second year of operation with a unit of 125 sows, farrowing twice a year. These men do not look for any trouble in disposing of their pigs. This unit has in mind the expansion of their sow herd to several times its present size.

John Ertmann and Earl Mikkelsen of Black Hawk County, Iowa, are co-operators in a 60-sow herd at present. They have had no difficulty in finding a good outlet. [*Turn to page 100*

New cattle breed comes North

Santa Gertrudis steers from Texas are making cheap grass gains on this Pennsylvania farm. They show promise as profitable users of soil-building crops and other roughages

By Ken McDaniel

The famed King Ranch of Texas has reached a long way—clear over into southeastern Pennsylvania. On the verdant, rolling hills of Chester County, you'll see a breed of cattle that is strange indeed to the eyes of a Yankee farmer. There, you'll find a grazing and beef-production experiment many livestock experts might consider unsound—a privately financed experiment. However, it actually is paying its way.

What makes livestock experts shake their heads isn't so much the kind of grazing as it is the breed of cattle doing the grazing. The breed is one that many would say is of practical use only in hot regions where standard breeds of cattle would stand still, or even go downhill.

This summer you'll find approximately 4,000 head of 2- and 3-year-old Santa Gertrudis cattle roaming over 12,000 acres, known locally as the Buck and Doe Run Valley Farms. The Santa Gertrudis breed, as you may know, is a creation of King Ranch and is a careful blend of Shorthorn and Brahman cattle. And it's the Brahman portion of this breed blend that irritates those who say that anything with Brahman blood should stay down South, or go back to India where it originated.

But King Ranch isn't in the cattle business to see how much money it can lose. R. J. Kleberg, Jr., the owner, has been shipping Santa Gertrudis steers to Pennsylvania for six years. He's done it because he wanted to make a profitable enterprise still more profitable. Kleberg and his farm manager, B. H. (Tommy) Wilson, are sold on improved pasture as a means of producing marketable beef and conserving the soil resources. Previously worn out from row cropping, nearly the entire farm today is sown to [*Turn to page 66*

Real cowboys from Texas drive the steers toward the loading chute, from which they will be trucked to scales. Careful weight records are kept so that operators will know the rate of gain that comes from grass feeding

Circular corral is a trick device which makes corner crowding impossible. This results in far less bruising or goring when cattle are driven up from pasture for weighing or other operations

Cottonseed pellets are scattered across grassy slope for Santa Gertrudis steers at Buck and Doe Run Valley Farms, Chester County, Pennsylvania. That's the only feed they receive, other than grass. Jeep and trailer arrangement makes the feeding job quick and easy

Four ways to start farming

Did your son graduate into farming, or a job hunt? We need well-trained youth on our farms. But splitting a farm into five pieces only makes certain *none* of your five children can farm it. These systems work

By J. B. Cunningham
Illinois College of Agriculture

You can blame only yourself, nine times out of ten, if your boys leave the farm. Chances are, you missed a bet along the way by not taking them into partnership.

Where fathers and sons have worked out a business agreement, the entire farm family benefits: The boys get a start in farming; Dad is able to retire from the heavier farm work without getting entirely out of the business. And the whole family can enjoy the increased returns from a more profitable farm business.

The point is, don't wait until your boys are married, or 21, before you give them an interest and a start in farming. That may be too late. Father-son profit-sharing can start—on a limited scale—when the boys are old enough to take a real interest in farming. The agreement can be changed later on to meet changing conditions.

The best way to tell you about father-son agreements is to show how some farm families already have put them to work.

For instance, you might think it hard for Emery Cender, Champaign County, Illinois, to share farm business profits with his boys—because of the large family of four boys and five girls. It did take some figuring. But today the Cenders have a plan in operation that's benefiting the entire family. Here is how they worked it:

Malon, the oldest son, was 16 when he [*Turn to page 88*

The Emery Cender family in Illinois, with four husky boys and five girls, does it this way: The girls all help Mother in the house

The boys are in partnership with Dad. By working together, business is big enough to justify plenty of labor- and backsaving machinery

Eldon and Lowell Cender really take an interest in the pig crop; they get a percentage of profits from it, and from rest of farm as well

All the Cenders, working together, handle 760 acres of good Illinois land. This way they can have efficient fields and use large-scale, timesaving equipment

Four-man crew makes quick, easy work of what would be a tough job alone. And the Cenders enjoy being together

Have You Seen The
EGG-O-MAT ?

This exclusive feature stores 16 eggs out of the way; dispenses 1 or 2 at a time. Gives you extra usable shelf space.

it's femineered!

The Egg-O-Mat, like everything about all six new IH Refrigerators, is planned by women to work and save for you!

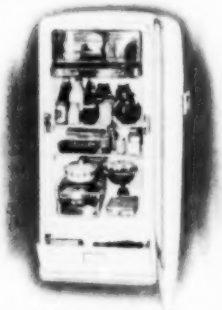
One of the many exclusive features of the

NEW INTERNATIONAL HARVESTER REFRIGERATORS

WOMEN DREAMED THEM...
HOME ECONOMISTS
PLANNED THEM...
they're *femineered!*

EVERY FEATURE HAS A FUNCTION

- **Top-to-Floor Refrigeration** gives added safe, useful storage space
- **Exclusive Diffuse-O-Lite** effectively illuminates the entire interior
- **Exclusive Bottle Opener** permanently built-in so it cannot be misplaced
- **Tapered Shadowline Styling** saves kitchen-space; full-length door
- **Big Bottle Storage** holds 12 to 24 qts. of milk or other tall bottles
- **Full Width Crisper** safely stores 14.2 quarts of fruit and vegetables
- **Freezer Locker** stores 55 pounds of frozen food; 4 lever-release ice trays
- **Porcelain Enameled Interiors** are white; acid, stain-resistant throughout
- **Tight-Wad Refrigerating Unit** has its 5-year warranty attached to the cabinet



PRICES START AT
$199.95

Big 7.4 Cu. Ft.—
Only 25 in. Wide!

For the *smallest kitchens* . . . the *biggest appetites* because it's so compact outside, so roomy inside! Functional features include shelves you can arrange *24 different ways* . . . 35-lb. freezer locker, 14½ lb. meat tray! (Model H-74, $214.95)

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New *COLD FROM TOP TO FLOOR* Design

For Big Oversize Food Storage in Farm Kitchens!

Farm families *love* this huge 9.5 cubic foot model because there's *loads* more storage space —it's *cold all the way down! More shelves* to load with *more foods* – to make all foods easier to get at. And not an inch added to the cabinet! *Handy?* Let your IH dealer show you! *Every feature has a function* – pure convenience throughout! Because it's *femineered* – made to fit *women's ways!* So are *all six* thrifty International Harvester Refrigerators – from 7.4 to 9.5 cubic foot capacities for families big and small. Extra large crispers – meat keepers – freezers . . . plus new convenience, roominess, beauty . . . make any International Harvester Refrigerator something to be proud of . . . to use and enjoy for the very best years of your life.

International Harvester Company, 180 North Michigan Avenue, Chicago 1, Illinois

Tune in James Melton and "Harvest of Stars," NBC, Sunday afternoons

International Harvester Also Builds McCormick Farm Equipment and Farmall Tractors . . . Motor Trucks . . . Industrial Power

NOW! Frozen Orange Juice Pie

Captured in a pie — Fresh Orange Juice Flavor! Betty Crocker

FROZEN ORANGE JUICE PIE

with new "no weep" meringue

(THIS PIE RECIPE DEVELOPED FOR USE WITH GOLD MEDAL FLOUR ONLY)

No grating of oranges. No squeezing juice. Has the tangy, delicate flavor that comes from *fresh* oranges.

Make . . . . . **8-in. Pie Shell** (*recipe at right*)

Mix in saucepan { **1 cup sugar**; **3½ tbsp. cornstarch** }

Stir in gradually { ***1⅓ cups orange juice (use frozen concentrated orange juice diluted according to directions on can)** }

Cook over moderate heat, stirring constantly, until mixture thickens and boils. Boil 1 minute. Remove from heat.

Beat a little of the hot mixture into . . . . **2 large egg yolks,** slightly beaten. Then beat into remaining hot mixture. Return to heat and boil 1 minute, stirring constantly. Remove from heat. Continue stirring until smooth.

Blend in . . . . . **2 tbsp. butter**

Pour into baked pie shell. Cover with Meringue (*recipe at right*). Bake *8 to 10 minutes* in *moderately hot oven* (*400°*) until delicately browned. Let cool at room temperature away from drafts. Serve as soon as cool.

*For a stronger flavor, dilute concentrated orange juice using only ½ as much water as called for on the can.

8-IN. PIE SHELL

Sift together . . { **1 cup *sifted* GOLD MEDAL "Kitchen-tested" Enriched Flour**; ****½ tsp. salt** }

Cut in with pastry blender or 2 knives . . . { **⅓ cup shortening . . . first cutting in half of it until mixture looks like "meal" . . . then cutting in the rest until particles are the size of giant peas** }

Sprinkle over mixture . . . { **2 tbsp. water . . . mixing with fork to make dough stay together** }

Round up into ball and roll out on lightly floured cloth-covered board 1½-in. larger than inverted 8-in. pie pan. Trim evenly. Place loosely in pie pan. Fold edge under or over to make stand-up collar. Prick thoroughly with fork to prevent puffing. Bake *8 to 10 minutes* in *very hot oven* (475°).

MERINGUE . . . Beat until frothy 2 egg whites, ¼ tsp. cream of tartar. Gradually beat in 4 tbsp. sugar. Continue beating until mixture is stiff and glossy.

MERINGUE SUCCESS TIPS—**1.** Add sugar gradually when egg whites are frothy rather than when they form stiff peaks. It dissolves more completely and helps prevent weeping. **2.** For tender meringues that cut easily, you'll note that this recipe requires a shorter baking period at a higher temperature. **3.** To help prevent shrinkage, spread meringue to edge of pastry so it has something to cling to.

**When using Gold Medal Self-Rising Flour (sold in parts of South) omit salt.

"Betty Crocker" and "Kitchen-tested" are registered trademarks of General Mills

Avoid Costly Baking Failures—use GOLD MEDAL FLOUR

THE FLOUR you use in a recipe costs but a few cents. Yet if it fails, your baking can fail—and ingredients costing many times as much may be wasted.

Avoid costly failures. Use Gold Medal "*Kitchen-tested*" Enriched Flour. The baking qualities of Gold Medal are uniform from sack to sack—from month to month. You can count on every cupful—every time.

Good cooks depend on Gold Medal. They *know* its reliability. It must be better—women buy more sacks of Gold Medal than the next five brands combined!

Available in six different sack sizes—2-lb., 5-lb., 10-lb., 25-lb., 50-lb. and 100-lb. Valuable silverware coupon and tested Betty Crocker recipes in each sack.

General Mills

IT MUST BE BETTER—

. . . women buy more sacks of Gold Medal 'Kitchen-tested' Flour than the next 5 brands combined

July Cooler

Makes 6 glasses

Combine 1 cup orange juice
1 cup unsweetened pineapple juice
1/4 cup lemon juice
1/4 cup maraschino cherry juice
4 tablespoons honey
Chill thoroughly.
Add 2 cups chilled ginger ale just before serving
Combine 1/2 cup cream, whipped
1 tablespoon sugar
Top each glass with a generous spoon of whipped cream.
Garnish with maraschino cherries.

Strawberry Frost

This recipe is for one serving—multiply it to make as many as you like

Put into a large, tall glass
2 tablespoons crushed, sweetened strawberries
1 tablespoon lemon juice
1 good dip vanilla ice cream
1/4 cup milk
1/3 cup ginger ale
Stir slightly.
Top with a fresh strawberry.
Serve immediately.

—*Dorothy Hofbauer, Nebraska*

Raspberry Punch

Makes 12 tall glasses

Combine 1 quart fresh iced tea
1 quart raspberry juice
3 cups pineapple juice
3/4 cup lemon juice
Serve with chipped ice
Garnish with lemon peel and mint leaves, if desired.

—*Miss Mildred Householder, Iowa*

Tomato treats

Here are delicious recipes that make the most of luscious, garden-fresh tomatoes

Delicious Tomato Mold

Serves 6 to 8

Combine 3 1/2 cups tomato juice
1 bay leaf
1 stalk celery
1/4 cup sliced onion
1 teaspoon salt
1/8 teaspoon pepper
Simmer 5 minutes. Strain.
Soften 2 tablespoons gelatine in 1/4 cup water
Add 2 tablespoons lemon juice, gelatine to tomato mixture
Pour about 1/2 of this mixture into an oiled 5x9-inch loaf pan.
Chill until set.
Combine 2 cups shredded cabbage
1/4 cup chopped green pepper
1 cup flaked tuna
2 hard-cooked eggs, sliced
Arrange on top of gelatine layer.
Pour on about half of remaining tomato juice. Chill until set.
Add rest of tomato juice. Chill again.

—*Mrs. Helen Shoemake*

Tomato Dogwood

Serves 6

Toast 6 slices bread on 1 side
Spread untoasted sides with 4 tablespoons mayonnaise
Place large slice of tomato on each.
Sprinkle with 1/2 teaspoon salt
Combine 1 tablespoon chopped pickle
2 tablespoons diced celery
2 tablespoons green pepper
Sprinkle over sandwich.
Top with 3/4 cup grated American cheese
Broil 3 minutes or until cheese melts.

—*Mrs. Helen Shoemake*

Tomato Sandwich Salad

Serves 6

Cut . . . . **6 medium tomatoes** in half
Scoop out bottom halves of tomatoes slightly.
Combine **2 3-ounce packages cream cheese**
⅔ cup chopped cucumber
2 tablespoons sliced radishes
¼ cup diced celery
4 teaspoons chopped chives
4 teaspoons pimiento
½ teaspoon salt
Dash of cayenne pepper
Spread on bottom half of each tomato.
Add tomato tops. Garnish with **parsley.**

—Mrs. Helen Shoemake

Tomato Mexicana

Serves 8

Combine **4 medium tomatoes,** cut up
1⅓ cups chopped green pepper
⅓ cup minced onion
1 small clove garlic, minced
1 teaspoon salt
Fry crisp **5 slices bacon.** Drain and chop.
Add the diced vegetables and bacon to
6 cups shredded greens
Add Bacon Dressing, made as follows:
Combine **6 tablespoons bacon drippings**
1 teaspoon chili powder
½ cup vinegar
Heat to simmering; pour over vegetables.

—Mrs. Charles Baker, Ohio

Chicken in Tomato Cups

Serves 6

Cut . . . . . tops from **6 tomatoes**
Scoop out pulp; chop and save.
Saute . . . . **3 tablespoons chopped onion** in
3 tablespoons butter
Combine with
1 cup drained tomato pulp
1 cup diced cooked chicken
½ cup cooked corn, drained
½ cup dry bread crumbs
1 tablespoon minced parsley
1 teaspoon salt
⅛ teaspoon pepper
1 well-beaten egg
Fill tomatoes with stuffing.
Dot tops with **butter.**
Bake at 350° for 25-30 minutes.

—Agnes Homolac, Kansas

Frosty drinks

Take a breather now and then during hot days, and refresh yourself with one of these

Sunday Julep

Makes 6 tall glasses

Combine **2 tablespoons tea leaves**
1 teaspoon grated lemon peel
1 teaspoon grated orange peel
2 tablespoons finely chopped mint leaves
Pour . . . . . **2 cups boiling water** over the mixture.
Steep about 5 minutes.
Strain.
Add . . . . . **¾ cup light corn syrup**
Stir to dissolve. Cool.
Add . . . . . **3 cups orange juice**
½ cup lemon juice
Pour over crushed ice in tall glasses.
Garnish with **orange slices** and **sprigs of fresh mint.**

Variation:
Add . . . . . **½ cup maraschino cherry juice.**

Tomato Cocktail

Makes 6 large glasses

Combine **7 cups canned tomatoes**
2 cups very finely chopped celery
¼ cup very finely chopped green pepper
½ bay leaf
1 tablespoon chopped onion
Simmer 10 minutes.
Press through a sieve.
Add . . . . . **½ teaspoon salt**
1 teaspoon Worcestershire sauce
½ teaspoon horse-radish
Chill.
Mix well before serving.

—Mrs. R. L. Pease, Nebraska

Look! 3 Wonderful Work-Savers That Prove Again—

You can't match a FRIGIDAIRE!

1. New! World's Biggest Little Range —Specially-Designed For Farms!

Got a small budget, a lot of folks to cook for? Then here's the range for you—the wonderful new Frigidaire "Thrifty-30"! It's just 30 inches wide—and sensationally low-priced. Yet its Thrifty-Giant Oven is the biggest in any household range—actually holds *10* loaves of bread, *6* big pies, a huge 35 pound turkey or a complete harvest-size meal. Saves you lots of cooking time! Moreover, this oven uses amazingly little current, reaches baking heat *fast!*

You get many other important features of much more costly ranges. There are *four* Radiantube Cooking Units—the fastest and thriftiest in Frigidaire history. Your broiler is waist-high and high-speed—broiler unit is recessed in oven-top, out of the way. There's Lifetime Porcelain inside and out. It has a one-piece Flowing-Top of acid-resisting Porcelain—smart Raymond Loewy styling—Frigidaire quality construction throughout. Ask your Frigidaire Dealer for a demonstration today!

$169.75*

2. New Frigidaire Food Freezers—store 308 to 630 lbs. of food

Take your choice of 3 sizes—8.8—11.7 (shown) and 18 cu. ft.—all designed to fit farm needs. All models are powered by Frigidaire's new, more powerful Meter-Miser mechanism. All three have new Raymond Loewy styling—wrap-around refrigerant coils—utility shelf—all the latest food-saving features.

Model HM-117 (shown)— **$399.75***

3. New Frigidaire De Luxe Refrigerator with Amazing New Super-Storage Design!

This new Frigidaire takes little more kitchen space than a 5 cu. ft. model of a few years ago—yet it has 9 cu. ft. of storage space! Note its sleek lines, finger-touch Target Latch, its bright Lifetime Porcelain or Durable Dulux exterior finish. Look inside—at lustrous new Ice-Blue and golden trim. Full-Width Super-Freezer Chest, twin, stacking Hydrators. Frigidaire's new Meter-Miser makes more cold with no more current! 9 and 10.7 cu. ft. sizes. 9 cu. ft. model with Dulux finish (shown)— **$309.75***

*Prices quoted in this advertisement are manufacturer's suggested cash prices. They include Federal Excise Tax (if any), delivery, placement and warranty. Local Tax and special wiring (if any) extra. Prices subject to change without notice.

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Appliances for the Farm

Visit your Frigidaire Dealer. Look for his name in Classified Phone Directory. Or write Frigidaire Division of General Motors, Dayton 1, Ohio.

Refrigerators • Electric Ranges • Automatic Washer • Clothes Dryer • Electric Ironer • Food Freezers • Electric Dehumidifier • Air Conditioners • Milk Coolers • Electric Water Heaters • Kitchen Cabinets and Sinks

This emblem on a Frigidaire Product is your assurance of utmost convenience, lasting beauty, proved economy features—plus General Motors dependability and Frigidaire's 30 years' experience in building millions of outstanding appliances.

STOMACH UPSET?

Before you take an alkalizer—read these facts from

READER'S DIGEST*

Certain drugs and alkalis are sometimes useful. However, doctors universally condemn the American pastime of swallowing bicarbonate of soda whenever there is distress after eating. The soda temporarily neutralizes the stomach acid, to be sure, but this is followed by a second rise of the acid, and constant dosing with soda may disturb the body's normal acid-alkaline balance.

Medical and surgical treatment is generally only incidental to the men-

Don't dose with soda or other strong alkalizers. Pepto-Bismol is a better, longer-lasting way to relief. Pepto-Bismol coats irritated stomach and intestinal walls with a liquid that protects and soothes, won't interfere with normal digestion, works *fast* 4 ways:

1. **Helps calm and quiet the upset**
2. **Helps retard formation of gas**
3. **Helps sweeten and settle the stomach**
4. **Helps control simple diarrhea**

Ask for Pepto-Bismol at your druggist's today!

* *In an article condensed from Fortune*

Take soothing Pepto-Bismol® and feel good again!

A Norwich Product

POISON IVY?

Invisible lotion helps relieve that itch

Don't scratch poison ivy or oak. Scratching aggravates the trouble.

It's better to *soothe* the irritation with Zemacol. Not an unsightly lotion—doesn't show on skin. Spreads an invisible, protective coating that quickly comforts you. Greaseless—won't stain—dries quickly.

Also helps relieve itching of eczema-like rashes, mosquito bites and many other skin irritations. A Norwich product sold with a money-back guarantee. At all drugstores.

***If it itches at all, use* ZEMACOL**

Are you getting paid for milk below the cream line?

Photograph by O. V. Gordon

This payment plan allows for both butterfat and solids-not-fat. It seems more fair, and it's working

By Harold Severson

What sort of a deal are you getting from the creamery, condensery, or cheese plant buying your milk? Is it paying you only on the basis of its butterfat content—or according to what is above *and below* the cream line?

Two dairymen, two views. Recently, I talked to a pair of dairymen who sell to the same creamery. They operate adjoining farms of about the same size. Pat has an excellent herd of Guernseys with a test of around 4.5 percent, while John's Holstein herd tests around 3.5 percent.

The creamery buys milk solely on the basis of its fat content. That means Pat is satisfied with this setup. John is less so, for it takes about 6 more pounds of *his* milk to produce a pound of fat.

Pays only for butterfat. This creamery, like a majority of plants in the Midwest, pays no attention to the solids-not-fat found below the cream line. Pat asks, "So what? We're paid for the butterfat and everybody is paid on the same basis. I've developed my herd to the point where it's producing high-testing milk. Other fellows can do the same thing."

But John plaintively asks the creamery manager:

"How about all the skim milk you're getting? You no longer dump it down the drain—as you did before the war. You're drying it now and getting money for it. I should be getting something for that skim milk."

Farmers demand a change. John's stand on this matter is supported by thousands of other dairymen—and by a growing number of creameries, too. With more and more farmers selling whole milk instead of cream, the method of payment is changed.

The old way was to buy milk on the basis of its fat content, with little or no attempt to adjust the price for the variations in the solids-not-fat. This method of payment becomes more unsatisfactory as the value of the solids-not-fat increases in relation to the value of fat.

This creamery did change. "It's unfair to buy whole milk on the butterfat basis," observes Chet Nelson, manager and treasurer of the Baldwin Cooperative Creamery. "It's like purchasing sheep on the basis of the wool, paying no attention to the value of the meat underneath that wool. That's why, in fairness to our patrons, this plant adopted the Froker-Hardin plan six or seven years ago."

Located in St. Croix County, Wisconsin, the Baldwin creamery was one of the first to use the plan of paying producers

[*Turn to page 58*

Save that "Down" Corn with an OLIVER Picker!

It's the extra ears you save that count! Whether high and dry on a tall, heavy stand . . . or on stalks that have "hit the dirt" with the onslaughts of borers and wind, you can depend on an Oliver picker to snare the hard-to-get ears.

"Live" snapping roll extension points and gathering chains work close to the ground. Wide "floating" shields follow the contour of the row, nose under "down" and tangled stalks.

Call on your Oliver dealer before fall. Get the full facts before you buy any picker. Check the many Oliver picker advancements, too. For example, the new, modern Oliver No. 4 tractor-mounted Picker-Husker is balanced over the rear tractor wheels. There's no forward overweight to bog down the front wheels in soft fields. Turning radius is extremely short . . . steering is exceptionally light. And, it's equipped with combination rubber and steel rolls that husk *clean* under widely varying conditions. The Oliver Corporation, 400 West Madison Street, Chicago 6, Illinois.

There's an Oliver picker **to meet your exact corn harvesting needs. Shown here is the No. 5 single row trailer-type Picker-Husker. Other pull types include the single row No. 5 Picker-Snapper and the two-row No. 2 Picker-Husker.**

THE OLIVER CORPORATION
400 West Madison Street, Chicago 6, Illinois

OLIVER

"FINEST IN FARM MACHINERY"

The OLIVER Corporation
400 West Madison Street, Chicago 6, Illinois
Please send me illustrated folder on the ( ) *new No. 4 mounted Picker-Husker*, ( ) *No. 5 Picker-Husker*, ( ) *No. 5 Picker-Snapper*, ( ) *No. 2 two-row Picker-Husker*.

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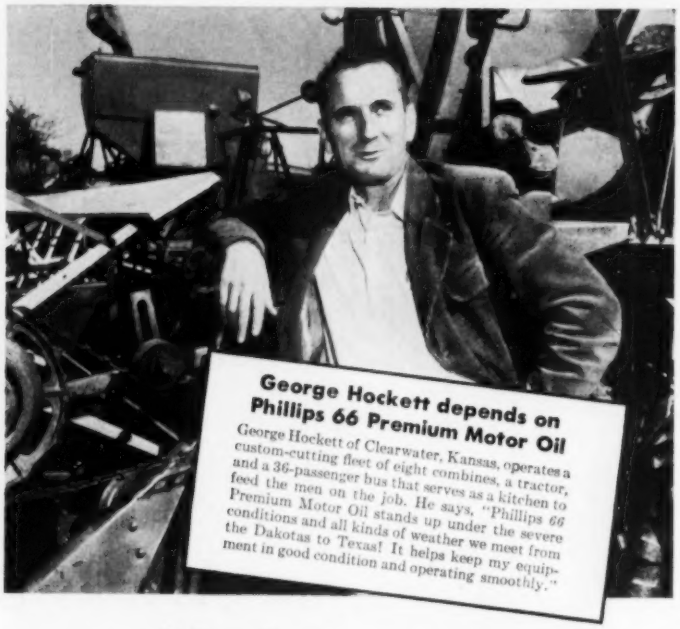
He follows the Harvests from the Dakotas to Texas!



George Hockett depends on Phillips 66 Premium Motor Oil

George Hockett of Clearwater, Kansas, operates a custom-cutting fleet of eight combines, a tractor, and a 36-passenger bus that serves as a kitchen to feed the men on the job. He says, "Phillips *66* Premium Motor Oil stands up under the severe conditions and all kinds of weather we meet from the Dakotas to Texas! It helps keep my equipment in good condition and operating smoothly."

GET *"Lubri-tection"!*

Phillips 66 Premium Motor Oil provides Lubrication *plus* Engine Protection!

Tough, hard-working Phillips *66* Premium Motor Oil not only does a great job of *lubrication* . . . it helps *protect* your engine, too. This lubrication *plus* engine protection is called "Lubri-tection." Valuable additives in Phillips *66* Premium Motor Oil help prevent sludge and varnish from forming . . . help keep your engine *clean!* Get Phillips *66* Premium Motor Oil from your Phillips *66* Dealer or Tank Truck Salesman.

EXCEPTIONAL MILEAGE AT A LOW PRICE!

New! The Lee Staghound Tire with 100% "Cold Rubber" tread is unsurpassed for tread-wear and carcass endurance in the low price field! Get it from your Phillips *66* Dealer or Tank Truck Salesman.

PHILLIPS 66 *PREMIUM* MOTOR OIL

Listen to the Rex Allen Show every Friday night over C.B.S.

Are you getting paid for milk below cream line?

[*From page 56*]

for both fat and solids-not-fat after the system was announced by Rudolph K. Froker and Clifford M. Hardin. Hardin now is director of the agricultural experiment station at Michigan State College, and Froker is dean and director of the College of Agriculture at the University of Wisconsin.

Ran into opposition. "There was quite a battle when the directors announced the Baldwin creamery would switch over to the Froker plan," Nelson recalls. "Men with high-testing herds claimed they were being penalized. Other dairymen argued it was the only honest way—that at last they were getting paid for *all* the milk they delivered instead of only a part of it."

Opposition to the Froker plan at this creamery has disappeared, according to Nelson. The same thing is true at the Ellsworth Cooperative Creamery in Pierce County, Wisconsin, says Howard Carpenter, business and sales manager. He has found no desire on the part of any of the producers to go back to the old system of selling milk strictly on a butterfat basis.

Hurt high-test herds? Irwin Christenson, a director of the Ellsworth creamery, points out that much of the opposition to adoption of the Froker-Hardin plan comes from farmers. Always they are the producers with high-testing herds.

"Some of these fellows thought they were being penalized after we changed over to the new plan," Christenson recalls. "Actually, they were not. For the same amount of milk, the man with a 3-percent test really is providing the creamery with more solids than the man with a 4-percent test. So the high-testing producer is getting only what he has coming—he isn't getting hurt at all."

This creamery changed back. Up at Barron, Wisconsin, dairymen tried a modified Froker-Hardin plan for about a year, then voted to abandon it in favor of the old butterfat pricing plan.

"Our plant average is around 4 percent," says A. Elkin, manager of the Barron Cooperative Creamery. "That's a factor, of course. A lot of the cheese factories in this area are paying on the straight butterfat basis. It's only natural for a producer to jump to a place where he figures milk will bring a better price."

Explains why plan is fair. On the other hand, J. M. Punderson, general manager of the huge Rochester Dairy Cooperative at Rochester, Minnesota, states that complaints about the new plan have been few and scattered.

"Dean Froker helped us to install this plan back in 1942," Punderson explained. "Naturally, anything different is bound to cause some objections.

"We brought out the point," Mr. Punderson continued, "that a hundredweight of 6-percent milk contains twice as much fat and will produce twice as much butter as a hundredweight of 3-percent milk. But, we also pointed out that the skim milk from 100 pounds of 6-percent milk is not worth twice as much as that from 3-percent milk. Furthermore, it will not produce twice as much

powder or any other product involving only solids-not-fat.

"The cost of handling high-testing milk is less per pound of fat than is the cost of handling milk of a lower test. So, in our explanation, we emphasized that the Froker-Hardin method of payment for milk takes these factors into consideration. Therefore, we told our patrons, this is truly a scientific plan. It is based on the market value of fats and solids-not-fat."

No effect upon margarine situation. This plan has no bearing on the present disturbed dairy situation.

"It will not help us to produce cheaper butter to compete with oleomargarine," explains Carpenter, of the Ellsworth plant. "This is merely a plan for paying on a more equitable basis.

"It's a tragedy that the butter industry has been its own worst enemy. We've hurt the butter market ourselves by permitting too many operators to ship poor grades of butter. We need to police our own industry so that only the finest kind of butter is produced and shipped by every creamery in the Midwest."

No attempt has been made by Dean Froker to promote wider acceptance of the plan which he and Hardin devised.

"I have discussed the plan at different dairy meetings," Dean Froker declared, "when invited, and I have helped to install this pricing plan at various plants. The plan was not developed until 1942, but between 15 and 20 percent of the milk in Wisconsin is now being purchased through this pricing method."

How plan works. According to Dean Froker, this pricing plan has four major objectives:

1. Payments are made on the basis of the amounts of both fat and s-n-f (solids-not-fat) in milk of different tests.

2. The plan reflects to producers of high-testing milk any saving resulting from lower unit handling costs (per pound of fat and s-n-f) as compared to low-testing milk.

3. The plan is suitable for all types of dairy plants—creameries, cheese factories, condenseries, combination plants, and fluid milk markets. Yet it is flexible enough to allow for variations in price and costs from plant to plant and market to market.

4. The plan, while dealing with several complex factors, is still relatively simple.

The new pricing plan has two parts: (1) a price per 100 pounds of milk of the same basic fat test; (2) a differential for adjusting the hundredweight price to two different tests of milk.

Price adjustments for milk of different tests is made through use of the price differentials. The solids-not-fat increase .04 percent for each 0.1 rise in the fat content. Therefore, the price differential should be equal to the value of the .01 percent of fat and the 0.4 percent of solids-not-fat in 100 pounds of milk.

Other factors—such as the market price of milk, quality premiums, and plant costs—can be brought into play in figuring the price differential.

Today, nearly eight years since the first plant in Wisconsin adopted this plan, a slow but distinct movement in favor of this pricing method has been set up. The fact that the overwhelming majority of plants using it are thoroughly satisfied is proof that the plan has its merits. **END**

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Freezer-packed meals

[*From page 36*]

is "cooky day" at our house. My younger children delight in getting out mixing bowls and recipes, then making the cookies while I supervise. Some we bake and freeze, some we just freeze. But it's fun to have the freezer, for when the children feel like trying their hand at cooking, I let them go ahead—the food will keep in the freezer.

I wait until bargain day at the grocery to buy my week's supplies. I can buy the economy sizes, or buy by the crate, and know that the foods will be safe in my freezer. I can buy in quantity at the height of the season for real savings in fruits and vegetables which aren't home-grown. This gives us a wide variety in foods. Of course, we freeze our own home-grown produce.

> **I wonder where the mothers learned all the things they tell their daughters not to do.** —*Eddie Cantor*

Another idea, especially for the homemaker too busy to freeze her own fruits and vegetables, is to buy commercially frozen foods in case lots. They come in the economical, institutional-size packages. Sometimes these will cost less than foods bought locally and frozen.

Also, my freezer relieves the pressure of that every-morning scramble over school lunches. I prepare sandwiches in large numbers—(enough for two or three weeks at a time). I do it on an assembly basis—package, label, freeze.

To complete the school lunch, I freeze cupcakes or cookies in individual packages, and freeze fruits and juices in quarter-pint containers. Even little Jimmy can assemble his lunch from this supply in the freezer. By noon, the sandwiches and other foods are thawed and ready to eat. Jimmy takes a dab of mayonnaise in his lunch, as it would soak into the sandwich if put on before freezing.

I double the recipe when I make soup, stew, goulash, spaghetti sauce, beef and noodles, or some other favorite of my family. I put half of the mixture in the freezer for use later. This way, I get out my seasonings and recipes but once and have only one set of pots and pans to wash. And there's a slight saving in electricity by using my stove only once.

I've found that money savings and flavorsaving bonuses come in knowing *when* to store. The peak of the season is best for fruits, vegetables, and some meats. I usually can keep these in my freezer for a year. Unbaked yeast breads are at their best for as long as two weeks. Prepared foods and baked products retain their flavor-peak for three or four months.

I don't go "whole hog" with my freezer when we butcher. Even though the temperature of the freezer is 10 or more degrees below zero, the food freezes slowly if I overload it. I have the initial freezing done at the local locker plant, then bring the food home for storing.

I depend on a chart to keep my freezer in organized order. It is a simple, cardboard affair hanging on the wall near my freezer, with pencil dangling alongside. One side reads "What's going in next" and the other is labeled "What we've used." For a good start on my chart, I got a detailed plan from our state extension service. They suggested amounts to put into the freezer, as well as the amounts to use each month.

Using the freezer for leftovers is another efficient aid to the budget. I save vegetable and meat cooking liquids for soups; I stow away meat and vegetable leftovers for fancy stews.

Besides the money saved through the use of a freezer, the nutritional savings of frozen foods are important. Research has shown that fruits and vegetables retain more nutritional value when frozen than in any other method of food preservation.

I'm a firm believer in the bigger the freezer, the harder it will work for you. Up to a point, of course. Our first freezer (we are a family of six) was 11 cubic feet. It looked so big when we bought it, but when I learned to use it, it seemed to have shrunk. Our new freezer was bought on advice from an authority. He told us that if we planned to keep our butchering in it, to buy nothing smaller than a 30-cubic-foot freezer. Most manufacturers recommend from 4 to 6 cubic feet for each family member.

There are two cabinet designs, and both have their advantages. The chest type requires less-frequent defrosting. The cold air is heavier than the warm air outside the freezer, so when the freezer is open, less cold air escapes. Foods are more easily removed from the vertical freezer. And, of course, vertical models require less floor space—important in some homes.

My neighbors who really have learned to use a freezer to the best advantage are loudest in their praise of what it can do for them. A little time spent in planning, watching for the good buys for freezing, and a working knowledge of freezer uses, they agree, makes their freezer pay off. It pays them in dividends of time and money saved. It gives them great convenience and joy in use. And it brings their families better nutrition. END

Put 'em on wheels

Be the mastermind in your family and don't struggle with heavy outdoor furniture whenever you mow the lawn. Put picnic tables, lawn chairs, and lounges on wheels. This neat trick saves lifting and allows you to follow the shade with no trouble at all. END

TRY THE $4,000 Prize Winner

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This was among the most beautiful entries in our "Bake-off" at the Waldorf-Astoria Hotel. It's a milk-chocolate cake . . . particularly luscious when you make it with our Pillsbury's Best Enriched Flour. (Other prize-winning recipes, too, come with our Pillsbury's Best.)

Ann Pillsbury

Director, Pillsbury's Home Service Center

Aunt Carrie's Bonbon Cake

by Mrs. Richard W. Sprague, San Marino, California

Adapted for your use by Ann Pillsbury

Bake at 350° F. for 30 to 35 min. MAKES two 8-inch layers.
All ingredients must be at room temperature.

Sift together	1¾ cups sifted **Pillsbury's Best Enriched Flour** 2½ teaspoons **single-acting baking powder** (or 2 teaspoons double-acting) ½ teaspoon **salt.**
Combine	2 squares (2 oz.) **chocolate,** finely cut, and 5 tablespoons boiling **water.** Stir until smooth and of custard consistency.
Cream	½ cup **butter** (half shortening may be used); add gradually 1½ cups **sugar,** creaming well.
Add	cooled chocolate and 1 teaspoon **vanilla.**
Blend in	4 **egg yolks,** one at a time. Beat for 1 minute.
Measure	½ cup **milk.** Add alternately with dry ingredients to creamed mixture, beginning and ending with dry ingredients. Blend thoroughly after each addition. (With electric mixer use low speed.)
Beat	4 **egg whites** until stiff but not dry. Fold gently but thoroughly into batter.
Pour	into two well-greased and floured 8-inch round layer pans, at least 1¼ inches deep.
Bake	in moderate oven (350° F.) 30 to 35 minutes. Cool layers, then fill and frost.

BONBON FILLING

Cook 1 cup sugar, 6 tablespoons water, 1½ teaspoons light corn syrup and a dash of salt over low heat, stirring until sugar dissolves. Cover saucepan 2 to 3 minutes to dissolve sugar crystals on sides of pan. Uncover and continue cooking until a little syrup dropped in cold water forms a soft ball (236° F.). Remove from heat. Beat 1 egg white until stiff but not dry. Add hot syrup very slowly to beaten egg white, beating constantly. Blend in ¼ teaspoon vanilla. Beat until frosting is of desired consistency. Spread between layers.

FUDGE FROSTING

Combine 2 cups sugar, ¼ cup top milk or thin cream, 2 squares (2 oz.) chocolate, 2 tablespoons light corn syrup and a dash of salt in saucepan. Cook over low heat and stir until dissolved. Continue cooking until a little syrup dropped in cold water forms a very soft ball (230° F.); stir occasionally to prevent scorching. Remove from heat. Add 2 tablespoons butter and cool to lukewarm (110° F.). Add 1 teaspoon vanilla and beat until thick and creamy. If necessary, thin with a small amount of cream. Spread on top and sides of cooled cake.

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When you are building new or remodeling, you can plan a spot like this for potted plants (geraniums are choice). This deep-latticed window frames an entrance beautifully and makes a terrace bright and cozy

Houses, even old ones, take on new glamour when their bay windows overflow freely with boxes of colorful petunias, geraniums, and trailing ivy. Flower boxes add friendliness that makes a home look cared for

There's so much charm in Flower boxes

Flower boxes filled with colorful blooms make a house look like home

—warm, inviting, personally yours

Petunias, all-summer flowers, look so right for windows of small houses. Trailing plants like periwinkle and moneywort lend an informality that spells friendliness. Boxes should match color of the side wall

Plan now for a porch or terrace setting as lovely as this. Here flower box holds coleus, snapdragons, petunias, bachelor buttons, nemesia. Geraniums and climbing rose trellises complete the attractive setting

There isn't a house that can't wear a flower box well somewhere—across its front, under a window, at the entrance, or along the porch railing.

It's a little late now to get your flower boxes into full bloom for this summer, but *now is a good time* to lay your plans for next year—to spot the best locations for the boxes, to get them made and placed.

Success with flower boxes involves a few easy-to-follow rules. These rules apply not only to the plants to be used, but also to the soil, fertility, the drainage, and the kind of wood best suited to make the box. And of course, the location of the box—be it in the sun or in the shade—will influence the plants to be used.

The flower boxes themselves should be made of cypress or redwood if you want them to be long lasting. Flower-box soil should consist of 2 parts good garden loam, 1 part compost, and 1 part sand. If you are located where there is peat soil, it can be used without adding the compost and sand to it. Drainage is necessary, so line the bottom of the flower box with an inch or two of gravel [*Turn to page 77*

By Louise Field

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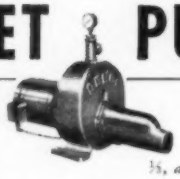

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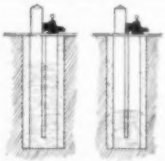

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Allergies

[*From page 13*]

are bad actors. "Rose fever" in May, June, or July has nothing to do with roses. Grass pollens are mostly to blame.

The third and bloomingest hay fever season runs from mid-August until frost. Although goldenrod is full grown at this season, it has practically nothing to do with hay fever. Its pollen is too heavy and sticky to be carried by winds. The most vicious of hay fever inciters is ragweed, in its common and giant forms.

What you can do about hay fever depends on how badly you're bothered. There are several simple aids. Remember that symptom-causing pollen is air-borne. Keep out of drafts and high winds as much as you can. Don't swim when your nose is inflamed. Stretch a wet sheet over the open bedroom window at night. If you can, do field work after a rain which clears the air of pollen. Filters worn in the nose will give some relief if you have to work a tractor on dry, dusty days.

Such measures are helps, not cures. The famous anti-histamine drugs aren't cures, either, but they hold great promise of temporary relief when simpler means fail. Histamine is a body chemical, released by an allergy mechanism in such a way that it "breaks the dam" in body cells and causes the distresses we call allergies. Anti-histamine drugs neutralize histamine and thus relieve symptoms. Relief usually lasts three or four hours, so that four properly spaced pills very often tide a patient comfortably over a bad day.

It's best to have your doctor, who knows your case, prescribe an anti-histamine drug in proper dosage. Over-the-counter anti-histamines, generally speaking, are a little different dosage than a doctor would prescribe. Another reason for consulting your doctor is that it gives him a chance to warn you about possible bad effects—drowsiness or dizziness.

But suppose temporary relief by drugs isn't good enough for you. What else can you do? You can ask your doctor about "desensitization" treatment. The idea is to identify the particular substances to which you're sensitive, give you small shots of them, gradually increasing them until you're relatively immune. These treatments are highly regarded for hay fever patients who have to go about their business whether pollen blows or not.

Desensitizing injections are time-consuming, sometimes unpleasant, and can run into money. For that reason they aren't given routinely to every mild case. But they are the closest thing yet to permanent relief for the sufferer who is "knocked out" seasonally by his allergies.

You can take your injections *during* the season, a few weeks in *advance* of the season, or *perennially*—all year around. The best bet is to let your doctor work on you in advance so your immunity is at its peak just when your misery season hits.

Of course, the doctor has to know what he's desensitizing you *to*. Skin tests help. A testing extract is scratched into your skin. If a reddish wheal appears, you're supposed to be sensitive to that ingredient. Skin tests are far from infallible, but they're important as diagnostic aids. There's no need to be tested with 200 or 300 different substances, as was the case not long ago. A general practitioner with

a few test extracts can check your reaction to substances that really matter: the pollens and dusts in your locality.

Food allergies can be harder to spot because skin tests are of little help, and symptoms can be vague. You may have headaches, skin eruptions, or a misery in your middle. A food diary is a great help in learning what foods are guilty. Keep a daily record of everything you eat, and that means *everything*. See if your symptoms regularly follow the intake of certain foods, particularly those which have unusual ingredients. Often one becomes suspicious that egg or chocolate or whatnot is a source of trouble. The food diary will help to pin down the culprit. When the field is narrowed down in this way, your doctor then can test your sensitivity to the suspected substances.

"Cat asthma" doesn't refer to a sick kitty, but to the wheezing, stuffy breathing, or watery eyes and nose, that afflicts some people when there is a cat in the house. Not that a cat is always to blame. A house dog, or danders from other animals tracked in from the barn or shaken loose from work clothes, may be to blame. Or house dust. All these are inhalants—irritating to sensitive persons.

Forbid pets the run of the house and hang work clothes in an outside part of the house, not in the bedroom. Nighttime breathing difficulties often disappear when a feather mattress or down pillow is discarded. Covers of plastic or other airtight materials can be used on mattresses and pillows.

If someone in your family is sensitive to house dust, remove filmy window curtains and draperies from his bedroom. Take out upholstered furniture and other dust-catchers. Don't stir up dust with a broom, but use an oil mop or vacuum.

Many mysterious skin eruptions aren't quite like the allergies we've mentioned. They're caused by contact with irritating substances which can play hob with anybody's hide. Contact dermatitis (skin rash) can be not only annoying but downright disabling to farmers. It is caused by irritating plants and weeds and scores of chemicals used in insecticides, sprays, fumigants, paints, and seed treatments.

Fortunately, the doctor can usually clear up the mystery with patch tests. A small amount of, say, a spray ingredient is placed on the skin of the arm and a bandage worn over it. If a reddened patch shows up when the bandage is removed 24 hours later, the doctor's advice probably will be to change sprays.

You and your doctor, together, can keep an allergy under comfortable control except in the most extreme cases. Allergy is such a fashionable diagnosis that it is often blamed for other troubles. Don't guess or decide to endure your misery bravely. Let your doctor help you.

Every day, scientists who study body chemistry are coming closer to understanding the basic mechanism of allergies. Only a few weeks ago, four patients who had had severe asthma for years were almost instantly relieved by injections of the new wonder hormones, ACTH and cortisone. These substances are produced by the pituitary and adrenal glands. Allergy has never been thought of as a gland disorder, yet gland chemicals worked temporary cures in seriously ill asthmatics. Such continuing advances point to the day when we may have yet undreamed-of treatments for allergy. END

...With the New, Improved BELLE CITY Picker-Snapper

"Last year, I picked 150 acres of corn and the Belle City Corn Picker did the cleanest job I have ever seen", says Robert Hamiel, Dayton, Ohio. Hamiel is just one of thousands of enthusiastic users of this new improved light weight, low-cost Belle City Husker or Snapper.

NOW... SOMETHING NEW HAS BEEN ADDED

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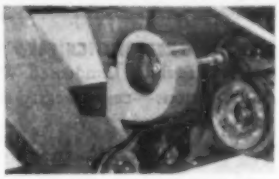
FINGER TIP CONTROL . . . a hydraulic ram cylinder that attaches to the Picker frame now permits you to raise and lower the gathering points with a mere touch of the famous Ferguson System Finger Tip Control Lever.

HIGH-SPEED BLOWER . . . that attaches to the husker bed and blows husks and trash clear of the wagon elevator.

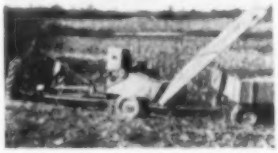
MILD SNAPPING ROLLS . . . that effectively reduce shelling in extra dry or brittle corn. Smooth rubber discs for the husking rolls are also available for use in corn that shells easily.

HUSKER OR SNAPPER...for growers who prefer to snap their corn, the Belle City Picker is also available as a Snapper. If you wish, you can use the Belle City Picker for *either Snapping or Husking*. Snapping and Husking Units *are completely interchangeable*.

Hydraulic ram cylinder attached to the Picker frame allows the raising and lowering of gathering points.



High-Speed Blower clears elevator of husks and trash. Prevents entry into wagon box.



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You give your flock a **VITAMIN FORTIFIED,** 55% milk serum solids feed that puts growth and "milk-fed" finish on broilers . . . helps bring pullets along fast for early fall laying . . . gives summer layers an extra boost . . . and helps keep the whole flock sturdy and in good condition.

Supplies **GUARANTEED** levels of Vitamin D_3 and riboflavin, plus other B-complex vitamins and additional growth factors present in natural milk sources and Ribolac, a whey fermentation product.

COMPARE the *cost.* Compare the *nutrients.* Then get Peebles' Free Choice Feed and compare the *results.*

The new 50-lb. carton is solid fiber board with water resistant outer finish especially designed to stand up when used for range feeding. Peebles' Free Choice Feed is also sold in 100-lb. and 50-lb. drums.

WESTERN CONDENSING COMPANY

APPLETON, WISCONSIN **SAN FRANCISCO, CALIFORNIA**

World's Largest Producers of Whey Products

Peebles' Calf-Kit Saves Milk

One pound of Calf-Kit replaces 8 pounds of whole milk . . . raises big, strong, husky calves with real milk-fed bloom and vitality.

New cattle breed comes North

[*From page 49*]

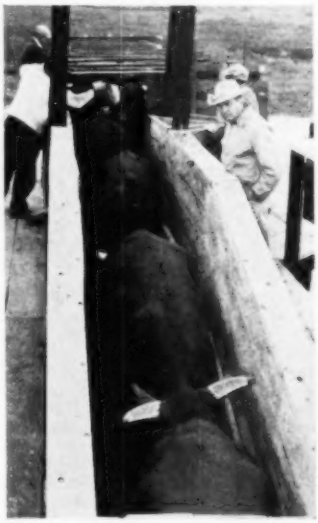
various combinations of orchard grass, Ladino, perennial ryegrass, and brome, along with native stands of bluegrass and White Dutch clover.

These experimental seedings have been treated with 500 pounds of 20-percent superphosphate and one ton of ground limestone per acre. Kleberg and Wilson expect to repeat the phosphate treatment every three years. The pastures are clipped each August to keep down weeds.

Most of the cattle from King Ranch are shipped in May to Pennsylvania, where they graze until sold in October, November, or December. Grass is their

Santa Gertrudis steers grade Commercial to Good after a full season of grazing

Cottonseed pellets are fed to cattle on grass—less laxative than soybean meal



Steers go up chute into truck, while the owner, R. J. Kleberg, Jr., checks count

only feed until midsummer, when they start receiving from 2 to 4 pounds per head daily of cottonseed pellets. The pellets are scattered from a trailer by means of a rope and lever arrangement operated by the driver on the Jeep pulling the trailer. (See bottom picture, page 49.)

This summer, a nearby feed company in Pennsylvania is preparing on special order a pellet made up of 10-percent cottonseed cake and 90-percent ground corn. The idea behind this formula is to try grain feeding on Santa Gertrudis cattle. Kleberg believes that if this works successfully, he will be able to supply either grain-fed or grass-fat cattle, whichever looks more profitable on the market.

Gaining about 360 pounds during the grazing season, the Santa Gertrudis steers go to market weighing an average of 1,300 pounds. It's easy to get such gains on grass with 2- and 3-year-olds.

> **People seldom improve when they have no other model but themselves to copy after.** —*Oliver Goldsmith*

Cattle sold early in the marketing season grade about two-thirds Commercial and one-third Good, whereas the proportions are reversed for cattle sold late in the marketing season. About 2 to 3 percent of the yearly output grade Utility. Dressing percentage runs 3 to 4 percent higher than for standard breeds of the same market grade.

When asked whether a weight range of 1,200 to 1,500 pounds was a little heavy for market preferences, Kleberg replied that he wasn't trying to give the market exactly what it wanted, for he was making more money this way.

About two-thirds of the output goes to a large packer, and the rest is sold on the open market in such Eastern cities as Philadelphia, Baltimore, New York, and Harrisburg. More than 12,000 have been sold in this manner during the past four years, indicating that there is a consumer acceptance for beef from a breed carrying Brahman blood.

Cattle were wintered in Pennsylvania for the first time in 1948-49. These 500 critters were light cattle received in August, late in the pasture season. Weighing only 700 to 800 pounds upon arrival from King Ranch, they were grazed on grass and cake till November, and then put in corrals and barns for the winter.

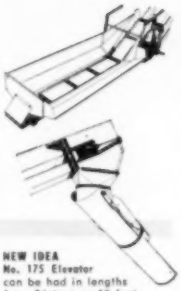
Until January 10, they received only poor-quality alfalfa-timothy-clover hay, and, after that, they got 8 pounds of corn-and-cob meal and 2 pounds of cottonseed meal per head daily. This kind of feeding continued until April 20, when they went to grass. They averaged 125 pounds of gain during this period.

The temperature dropped below the zero mark, but it didn't seem to faze the Santa Gertrudis. That may be surprising to some, when they consider that three-eighths of the Santa Gertrudis blood is from the Brahman, a breed of tropical or subtropical origin.

When asked whether cattle with Brahman blood might find a place as roughage consumers on the farms of Northern and Midwestern states, Kleberg was noncommittal. But he expects to expand his grazing operations next year to 5,000 head. Maybe that's his answer. **END**

Turns Toughest Jobs Into Short, Easy Chores

that's why a* NEW IDEA *is a good idea



NEW IDEA No. 175 Elevator can be had in lengths from 26 to over 50 feet — with stationary hopper, or tilting hopper and swivel-type grain spout.

NEW IDEA No. 175 Elevator is rigidly braced with strong, simpler-to-adjust suspension trussing—won't bow or bend!

Small grain or ear corn, baled hay or filled sacks — they all move along like clockwork on a modern NEW IDEA No. 175 Elevator. Bulkiest loads ride safely in its roomy, wide trough. Closed return trough prevents loss of even finest loose grain. In short it *handles anything*, faster and with fewer hazards.

And what a work-saver for storing your heaviest harvests! You can use it most anywhere with most any type of power. This newest NEW IDEA is *easy to use*, easy to move around . . . eliminates constant bending, pushing, lifting, heaving . . . literally lets you *watch* the tough jobs being done for you.

What's more this NEW IDEA man-saver is as husky as it is handy. The trunk is built of heavy galvanized steel, box-crimped for extra strength. The complete Elevator is *suspension-trussed* against buckling or bending. In fact, it's built throughout to *last a lifetime* — engineered to outperform on every count. Ask your NEW IDEA dealer for a thorough demonstration. Mail coupon for free folders.

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Send FREE folders as follows:

- ☐ All-Purpose Elevators
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Name_____

Address_____

Dozer Remodels Eroded Acres... Diesel D2 Fits Land-Use Plan!

■ Gashed by gullies 4 feet deep, this field is being remodeled *to 1950 standards.* The "Caterpillar" D2 Tractor concentrates its heavy-duty, traction-harnessed horsepower on the No. 2S Dozer. And the earth-rolling blade, under positive hydraulic control, cascades the gully full, in nothing flat!

Soon the tract will be smoothed, limed, fertilized—and seeded to a high-producing, new pasture mixture. And its stock-grazing capacity will compare favorably to strong, new land!

Between field jobs the D2 and its bulldozer fill gullies; build check-dams; clear brush; repair terraces; remove trees; straighten stream courses. As it reclaims nearly 100 eroded acres, the outfit adds several times its price to the value of the Carl P. Slane farm, Brimfield, Illinois.

The 4-plow D2 fits the farm's scientific land-use program. With all-soil, tread-light traction, it pulls equipment that does proper and timely tillage. It works without harmful soil-packing; makes contour farming easy.

Corn Belt owners figure that the 32-H.P. D2 will save its price, *in fuel dollars alone,* within 8 ordinary farming seasons. And "Caterpillar" Diesel Tractors that have done what equals 25 tractor years of heavy work on an average farm, are still at it!

Find out what profit advantages you'd command on a "Caterpillar" Diesel Tractor's deep-cushioned seat. See your dealer soon!

Caterpillar Tractor Co., Peoria, Illinois

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REG. U. S. PAT. OFF.

Diesel Farm Tractors

DIESEL ENGINES • TRACTORS • MOTOR GRADERS
EARTHMOVING EQUIPMENT

D2 and No. 2S Bulldozer fill deep gully, reclaiming eroded land for new pasture. Other view shows D2 pulling 21 foot disk harrow, contouring 6 acres per hour on only 1½ gallons of low-cost fuel. Price of a standard 50 inch gauge Diesel D2 is $3415 f.o.b. Peoria, Illinois. Price subject to change without notice.

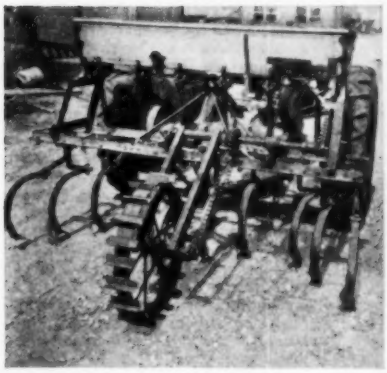
"Earthmoving on the Farm"

This 16-page booklet shows how these Diesels, with matched equipment, keep the profit-season open—doing conservation and other jobs—besides farming. Request your copy direct from "Caterpillar."

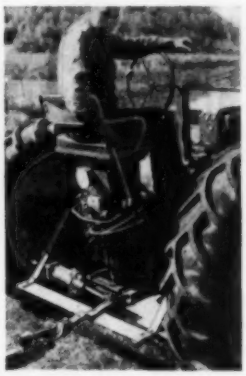
Successful

SHORT CUTS

Build them yourself, save time and dollars

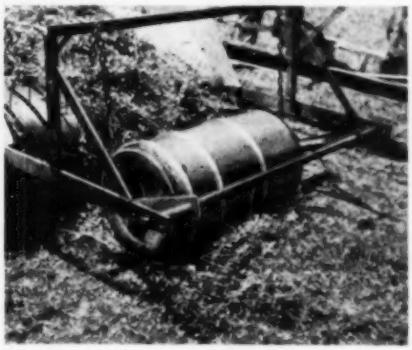


Rye is seeded when corn is cultivated for the last time on the John Wilson farm, Mukwonago, Wisconsin. Power to operate the seeder is provided by the flanged rear wheel. Rye drops in front of the cultivator teeth and is covered during plowing

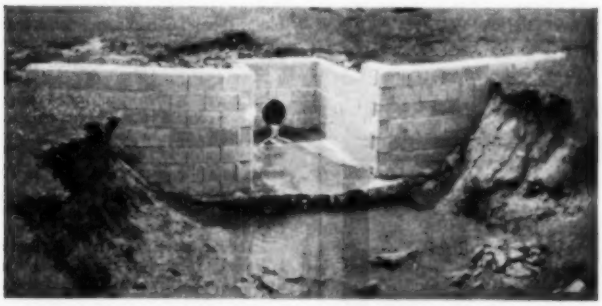


Hydraulic control keeps plow lined up for proper furrowing on slopes and contours. Hitch is shifted while moving by Millard Smith. It saves time and labor

Chain jack is handy for hitching or unhitching combine. Willis Hinkson, Henry County, Iowa, welded pipe to combine so jack slides inside



Packing windrow before hay chopper or baler picks it up is easy with this device built by a Platte River Valley farmer. Wheels were welded on each end and serve as bearings for the shaft which was attached to the framework. Thirty-gallon barrel was not weighted



Gully stopper was built by William Corwin, Jay County, Indiana. The concrete-block stopper drops the water from one level to another. The same construction can be used as good head wall for one or more field draintile outlets

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FOR OLDER ENGINES

Get a Casite Treatment today—it's simple, quick, inexpensive.

A pint of Casite through the air-intake frees sticky valves and rings, lets the power zoom through. A second pint in the crankcase oil keeps your engine clean and free-running, retards formation of sludge and gum.

LONG LIFE
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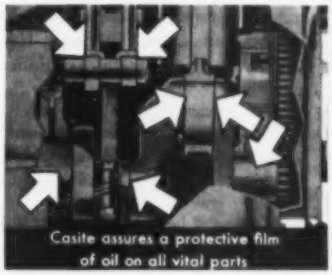

Casite cuts engine wear by speeding lubrication. Even in summer, finest oil is "cold" for the first few miles, must warm to 210° F to reach top efficiency.

Yet add Casite to the oil and its flow is speeded 22% at 100° F (more when colder). A protective, wear-resisting film of oil reaches all moving parts faster, greatly reducing "start-up wear."

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or-Double-Your-Money-Back

List Price 75¢ A Pint

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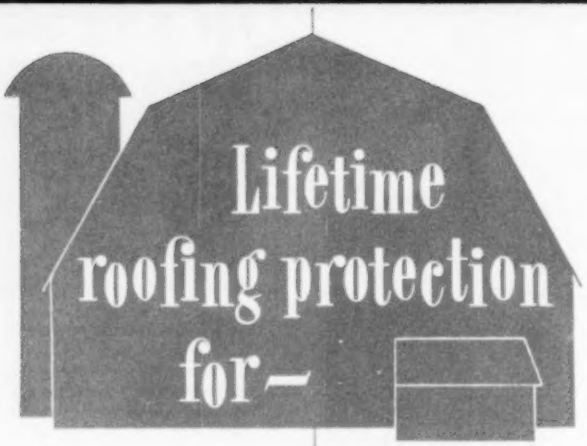
FOLLANSBEE SEAMLESS TERNE METAL ROOFING



Years have little effect on Follansbee Terne Metal Roofing—its lifetime durability is proved in thousands of installations made a half century or more ago.

That's why Follansbee Terne Metal Roofing offers maximum roofing protection for farm homes and service buildings. Here are just a few important features of Follansbee Terne Metal Roofing:

- **Weatherseals tightly and permanently**
- **Fire-resistant and non-inflammable**
- **Not affected by high winds, extreme heat or cold**
- **Affords absolute protection from lightning when properly grounded**

Write for a copy of the booklet—"Beautiful Lasting Roofs of Follansbee Terne Metal." It will give you further details about lifetime Roofing Protection with Follansbee Terne Metal Roofing. Just attach the coupon to a post card.

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Please send me a copy of the booklet "Beautiful Lasting Roofs."

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There's no best way to make hay

[*From page 24*]

1. Bale if you plan to sell rather than feed your hay. The one-man baler is the most economical-type baler. But it takes around 150 tons of business a year (hay or straw) to justify ownership, if you can hire baling done for $4 or less per ton.

2. Consider seriously the *buck rake* if your tonnage is low and hayfields are near the barn. Up to 40 tons, or much more if close to barn, the buck rake is low on labor and equipment charges. In some sections, farmers are making hay with a two-man crew. They use a tractor-, auto-, or truck-buck rake and a blower (often the wind stacker from an old threshing machine). Even with slings or grapple fork at the barn and a third man in the mow, this is our lowest-cost system for less than 40 tons.

3. The hay *loader and wagon*, or preferably a truck, still have their place on farms with low to medium hay tonnage where the buck rake won't work. This system is long on sweat, but low on capital requirements. It usually takes around an hour more labor per ton than the buck rake, chopper, or one-man baler. But the latter two methods require $2 to $5 more machinery expense per ton than the loader—at the 80-ton level. And until you can hire hay *put into the mow* (by either custom balers or choppers) for less than $5 per ton, you probably can do it cheaper yourself with a loader.

4. Within the range of 80 to 120 tons or more, the small (power take-off) *field chopper* should be considered. This system is almost sweatproof. Labor required is least of any method. And, based upon 1947 costs in Indiana, the total machine cost of harvesting (cutting, raking, chopping, hauling, and elevating into mow) was $4 to $6 per ton at 100 tons of use. As the chopper can be used for straw and silage as well as hay, many farmers reach this level of tonnage.

The baler, though still more popular than the chopper, can't quite compete in costs with the chopper even at levels in excess of 200 tons. The chopping system—one of bulk handling—takes less labor than bales. Then there is the constant cost factor of bale ties (wire or twine). This cost stays with you regardless of tonnage. The baler's use, therefore, should be justified on the basis of: convenience of having hay and straw in packages; ease of transporting hay long distances; and large tonnage due to custom work and use on straw. If you can use a baler for 200 tons of work and have only 100 tons of work for a chopper, you'd better buy a baler. If baler and chopper can substitute for one another in the higher tonnage brackets, the chopper is often the best.

Whatever system you use, you probably can reduce your labor costs per ton. Studies in Indiana and other states show wide variations in efficiency among farmers using the same methods and machines. Some farmers using hay loaders required fewer man-hours per ton than a few of their neighbors who used choppers.

Labor requirements for baling where bales are dropped on the ground, loaded and unloaded by hand exceed the time used by some with the loader and wagon. So all of your problems aren't solved in buying a machine. A good system for using that machine is important, too. **END**

Buy hail insurance?

[*From page 31*]

and say, "John, put $1,000 on the corn in the south 40." An application must be signed, and it usually takes 24 hours from the time the application is signed until the policy becomes effective. In heavily hailed regions, it is highly possible the insurance company may have all the business they want in the locality. It may seem strange that companies would turn down business, but they have to.

The major hail insurance companies try desperately to spread their business over the state or country, much as one would spread butter over toast. If they wrote all their business in one township or county, one storm through that section could put them out of business. They operate on the theory that in one season it can't hail every place. And, so far, they have been right.

Hail insurance adjustments also are different from any other type of adjustments with which the farmer is familiar. If a serious fire practically destroys the kitchen of a house, the adjuster doesn't state, for example, that the kitchen was 20 percent of the house, and that the farmer has a 20 percent adjustment coming. Rather, repairs are made and the bills paid. The farmer isn't given a check for 20 percent of his policy or $200 on a $1,000 policy.

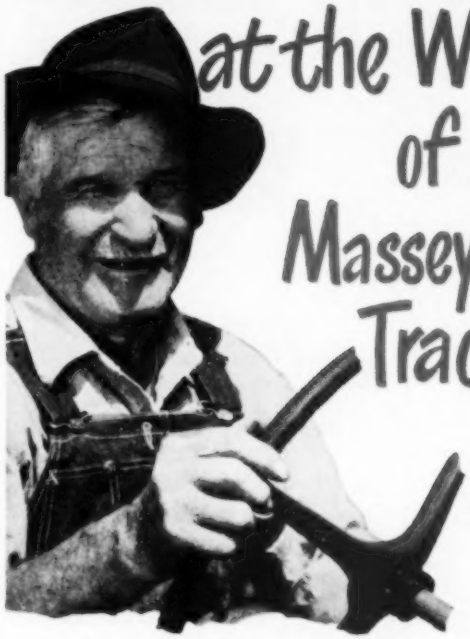
Yet this is how hail adjustments are made. If a crop is hailed, the farmer and adjuster go through the fields and determine as nearly as possible the percentage of the crop destroyed. This percentage is applied on the amount of insurance carried on the crop. There are some exceptions to this, but it's the method used by the majority of companies.

There is nothing involved, complicated, or difficult to understand about hail insurance. No one understands your problems as well as you do. With hail insurance, you're foolish to allow yourself to be swayed to either extreme—no insurance *or* overinsurance—or to have it one year and not the next, as did Bob Anderson. When properly written, hail insurance is an asset. When overdone, it is a liability. You wouldn't use a pipe wrench where a pair of pliers would do.

Like the right tool for the right job, you need the right-sized insurance policy—no more, no less. Be your own insurance agent. No one has more interest in your own welfare than you do. **END**

"Whatcha making?—sawdust?"

Prove the Difference at the Wheel of a Massey-Harris Tractor



Not until you actually drive one on your own farm will you have any real idea of the power, the economy, the ease of handling, and the comfort that are built into Massey-Harris Tractors. That's why your Massey-Harris dealer wants you to have an actual in-the-field demonstration.

GET THE FEEL OF MASSEY-HARRIS POWER

Massey-Harris Tractors have the kind of reserve power that carries you through tough spots with ease . . . that keeps jobs moving at top speed . . . that stays smooth, and steady under the varying loads of belt jobs. *You can prove these advantages with an "On-the-Farm" Demonstration.*

GET THE FEEL OF MASSEY-HARRIS COMFORT

Shock-resistant, finger-tip steering saves your arms and shoulders. Smart, streamlined design lets you see what you're doing without bobbing your head from side to side. Velvet-ride makes rough, bumpy fields road-smooth. *You can prove these advantages with an "On-the-Farm" Demonstration.*

GET THE FEEL OF MASSEY-HARRIS EASE OF HANDLING

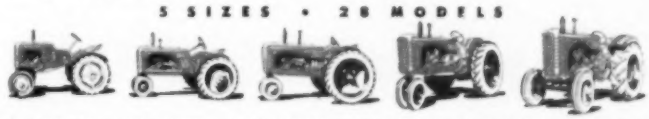
All controls are easy to reach. Simple operation helps maintain a fast pace all day long. Massey-Harris "Depth-O-Matic" two-way hydraulic system powers implements into the ground as well as lifts them out. Matching tools are easy to put on and to take off . . . simple to adjust for good work. *You can prove these advantages with an "On-the-Farm" Demonstration.*

GET THE FEEL OF MASSEY-HARRIS ECONOMY

Actual tests prove a Massey-Harris is more economical to own and to operate. Heavy-duty, high-compression engines deliver more power . . . do more work on a tank of fuel. More rugged construction assures more years of dependable service. Quiet, efficient transmissions mean greater efficiency...extra draw-bar pull in tough, hard going. *You can prove these advantages with an "On-the-Farm" Demonstration.*

Your Massey-Harris dealer will be glad to prove these advantages on your own farm. Arrange with him for a demonstration today. The Massey-Harris Company, Quality Avenue, Racine, Wisconsin.

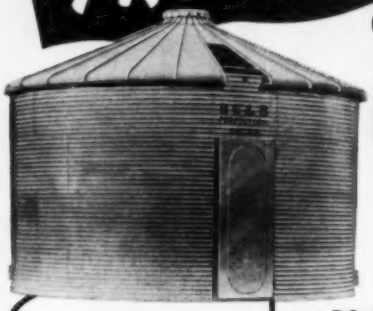
5 SIZES • 28 MODELS



1-Plow "Pony" 2-Plow "22" 2-3-Plow "30" 3-Plow "44-6" 3-4-Plow "44" 4-5-Plow "55"

Make it a Massey-Harris

You PROFIT 2 WAYS on GRAIN STORAGE with BS&B PERFECTION STEEL GRAIN BINS



First, you get 100% grain protection keeping your grain in top shape for full market value. Second, government fees from grain storage soon pay for bin... you actually get your investment back and more.

Accepted by U. S. Government for Loans

Perfection bins are built beyond minimum specifications as set forth by the Department of Agriculture and Department of Commerce. Storage fees paid to farmer should pay for bin in 3 years or less.

FREE Send us your estimate of grain storage you need. We will send a free copy of our "Farm Facts" Handbook.

Only BS&B Offers These Outstanding Features

- Easy assembly. One-piece welded door frame fits snug to precision-built corrugated side walls. Rust-resistant. Will last for years. Many Perfection bins have been in use for up to 35 years.
- Water-proof, weather tight and vermin-proof. No-leak ventilator cape, an important exclusive feature.
- Sizes available from 1000 to 2750 bushels. Write for details.

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CUTS and pulverizes weeds . . .

Remove blade guard for handiest weed cutter you ever had! Cuts and pulverizes weeds higher than your head. Cuts through long, matted grass. Moz-All is a real back saver in weed patches in fence rows, yards, orchards. Hi-Carbon steel blade cuts full 20" swath. Powered by 4 cycle, 1½ H.P. engine.

MOWS and trims lawns . . .

Have fun keeping your lawn beautiful and trim as a pin. Self-propelled, Moz-All climbs hills and zips through rough terrain—you just follow. Sucks grass up for a smooth, even cut. Chops clippings into beneficial mulch for lawn. Moz-All cuts very close to fences, trees, and walls. Eliminates laborious after-trimming.

PULLS ITSELF . . . efficient V-belt drive. Quickly put in "gear", or taken out for "free wheeling".

FINGERTIP CONTROL . . . both throttle and clutch are on handle.

FIRST IN SAFETY . . . all moving parts are properly shielded. Meets all safety requirements.

See the ALL-purpose, labor saving MOZ-ALL at your Hardware or Farm Equipment dealers today! Or, write direct for FREE descriptive folder.

Wind-King Electric Mfg. Co., Merrill, Iowa, Dept. SF50
Send Free folder about the new 1950 self-propelled MOZ-ALL
Name .....
Street or R.F.D. .....
Town ..... State .....

Wind-King Electric Mfg. Co., Merrill, Iowa

The Skeeles make money

[*From page 39*]

But their greatest enjoyment comes from the four boys and two girls—Leon, 20 years of age (his dad plans to help him get a 220-acre farm of his own); Jean, 17 (she wants to go to the College of Home Economics at Cornell this fall); Harvey, 11; Linda, 8; Roger, 7; and blond, chubby one-year-old Eddie.

Never have I known a more dynamic, energetic, and modest family. With all the work, Mr. and Mrs. Skeele somehow find time for school, church, civic, and farm-organization activities. Mr. Skeele, for example, is president of the board of trustees of his church, a Farm Bureau committeeman, and a director of the Grange-League-Federation at Tully. The P.T.A. takes most of what little time Mrs. Skeele can spare.

When I asked Mr. Skeele how he makes money on cheap milk, I got four quick answers:

1. Keep good cows.
2. Raise nearly all of the feed on the farm.
3. Feed the herd the right rations.
4. Cut labor costs to the bone.

Anyone who thinks farming isn't big business should help load the Skeele herd's daily 400 gallons of milk, sold in New York

Let's expand Number 1. It's obvious that good cows make milk more cheaply than poor ones. A machine that produces 400 pounds of fat certainly increases the milk check more than one with an output of 200 pounds. How much more? The economists say it takes 10 cows with a 200-pound butterfat test to get a little more than $1,000 for a year's work, while only four 400-pound-fat cows make as many dollars with less than half the work.

He thinks the best way to get good cows is to breed them to a good bull and to raise the calves. Right now he has 37 head of young stock bred by his two bulls, and—in all of his many years of farming—he has never bought more than six calves for replacements. Another Skeele moneymaking practice is to breed more than half of his herd for fall freshening, when milk prices are higher. Moreover, calf-raising costs are cut when calves come in the fall. They get two summers of low-cost pasture instead of one, and the heifers are on pasture the last six months before freshening.

By keeping healthy cows on the milking line for as long a life as possible, Mr. Skeele also keeps costs down. He gets the most return on his investment in raising them. "I learned this lesson the hard way," he recalls. "After rather heavy

losses several years ago, we pay lots of attention to herd health."

Commenting further on his Number 2 rule—raising the feed at home—this dairyman said that pasture is, without question, his most valuable crop. He gets more milk, and as a result more profit, when the cows are harvesting their own feed. In fact, it costs less than one-fourth as much to feed a cow on pasture as it does at the manger. His favorite pasture is a mixture of alfalfa, Ladino, red clover, alsike, and sometimes timothy. It carries two cows on each acre.

Added to the feed supply from the farm—besides the 35 acres now in pasture seeding and 20 acres of permanent pasture—are 35 acres of corn, 56 acres of grain (mainly oats and barley), and 60 acres of hay. In the cover picture you can see that hay being baled. Several acres of this currently high-producing land had this history—from trees and brush, to feed crops, to a bigger milk check. The Skeeles have been clearing land since their first days on the farm and intend to keep on bulldozing out a few acres of brush and trees during the next few years. The schedule calls for about 20 acres this year. Some of the best pasture, hay, and grain crops—and the highest yields—have come from that land.

After growing practically all the feed, the Skeeles try to do a good job of feeding it. They believe it's just as costly to be stingy with a good cow as it is to overfeed a poor one. Normally, one cow out of four is supposed to be a "Stanchion Sally" who doesn't come near paying for her feed, but there are no loafers on this farm. Twice a day the herd is fed grain, silage (either grass or corn), and hay.

Spring- and summer-freshening cows get plenty of high-quality roughage in July and August. By doing this, the

Here's key to Duane Skeele's pasture and hay program. Ladino, alsike, red clover and alfalfa keep his cows high producers

Skeeles can step up milk production as much as 500 pounds per cow per year. Early hay, cut just at the right stage of maturity, also puts more milk in the cans.

Point Number 4—costs—is a touchy subject with all dairymen. And here's the reason: The price they received for milk this past year fell about four times as much as dairy farm costs.

Cornell agricultural economists report that the average cost of producing 100 pounds of milk in Mr. Skeele's territory is approximately $4.50. Figure that one out—the farmer gets $3.75, but the

[*Turn to page 74*

IN SOUTH DAKOTA IT'S
DWAINE WRIGHT

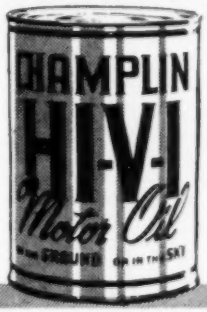
Dwaine Wright, 20, Brandon, South Dakota, has completed 16 projects in sheep, beef, swine and crops in the past 10 years. In 1947 he was a member of the Minnehaha county meats judging team which won high honors. In 1948 he was a blue-ribbon demonstrator at the South Dakota State Fair. Dwaine was winner of the State Sheep Herdsmanship award at the State Fair in 1949, as well as the State winner in sheep. He is shown above with part of his herd of 28 Shropshire Sheep, on his father's farm.

IN THE MIDDLE WEST IT'S CHAMPLIN

HI-V-I

THE OUTSTANDING MOTOR OIL

Smart farmers give farm machinery as good care as they do livestock. Above all they want dependable lubrication such as HI-V-I motor oil gives. HI-V-I has an added detergent to cleanse engines of tar formations and to keep them clean. Maintenance and operating costs hit a new low and engine performance hits a new high with Champlin HI-V-I motor oil. Try it!



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WESTINGHOUSE AIR COMPRESSOR

$21.50 Compressor Separately

Model T-1 Brand New — 2 CYLINDER PISTON TYPE. Operates with 1/3 H. P. Motor or equivalent gas engine.

Compressor, pressure tank, air gauge, air chuck, 20-ft. hose, pop valve, copper tubing with 4 brass flared fittings for connecting compressor to tank, 4-way cross and 3 nipples. COMPLETE OUTFIT, wt. 52 lbs. **$32.50**

Equipment less Compressor, $12.50

Compressor has 2" bore, 1½" stroke, ball bearing, 3.27 CFM at 600 R.P.M. Capacity up to 6.54 CFM. Size 9" x 11¾" x 6⅝". Wt. 26 lbs. Ideal for spraying paints, insecticides, etc., inflating tires, operating air tools, and other uses. All new equipment. U. S. government surplus. Replacement parts available. Amazing buy. Don't miss it.

Prices f.o.b. Chicago. Sold on money back guarantee.

Send check or money order today. Prompt shipment.

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HERE IT IS . . .

THE NEW QUONSET 24 Special at a new low price!

Here's the farm building buy of the year—the exciting new, low-cost, all-steel Quonset 24 Special! It's easy to buy, easy to erect, easy to maintain—framed with extra-sturdy N-A-X alloy steel* for extra years of usefulness.

And that isn't all! The Quonset 24 Special is fire-safe, wind-resistant—makes every inch pay off. There are no interior pillars or posts to take up space—no danger of rot or unsightly sagging. It's the *permanent* answer to your implement and livestock shelter problems...can be built to any length to suit your needs.

See your nearest Quonset dealer today. Ask for full details about the Quonset 24 Special—the all-round building for year-round service!

*Patented and produced by Great Lakes Steel Corp.

Ideal for

- Implement storage
- vehicle storage
- livestock shelter
- many other uses

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UNIT OF NATIONAL STEEL CORPORATION

YOU NAIL TO STRAN STEEL FRAMING

The Skeeles make money

[*From page 73*]

average cost is $4.50. The moral—*if you're going to make money on cheap milk, you can't be average!*

Mr. Skeele is convinced that cutting costs by saving labor is another way to protect profits when milk prices are skidding. You will find many laborsavers on Hill 'n' Dale farm. Four units and a fast milking method—just under 3 minutes per cow—shorten milking time. This is an important item with a large herd, as at least half the dairyman's choretime is milking. The men have whittled down the cleaning job in the milking barn to

100 cows eat a lot of hay. As you can see on the cover, the Skeeles know how to put it up fast, at peak of its nutritive value

about 20 minutes. It takes less time, of course, in the smaller barn where the dry and young stock are kept. The manure from the chicken coops on the second floor is pushed down through trap doors into the spreader below. Convenient barn and milkhouse arrangements, overhead grain bins, hay and straw chutes, feed carts, automatic "by-the-clock" lights in the poultry house, watering systems, and a score of other things help to make the work easier and more profitable. The new "round" baler, the field chopper, two tractors, and other machinery can be added to the list.

It doesn't take much more labor to produce clean milk at the farm, and there are no costly leaks in sanitation. Utensils are scrubbed with hot water and sterilized and stored carefully on metal racks made of pipes, in the milkhouse Mr. Skeele himself built with some help from the family. Udders are wiped clean, and cows are clipped and brushed to keep out sediment. Plenty of good bedding can be found in the stalls. The milk is cooled just right in a big 12-can cooler. He not only takes his own milk to the country plant where it's shipped to the New York City-New Jersey area, but also picks up cans on a regular route every morning.

All of this adds up to the Skeele goal—a good start in life for their children by improving and making solid the ownership of their farm. Henry David Thoreau once wrote that "a youth gets together his materials to build a bridge to the moon . . . but, at length, as a middle-aged man, he concludes to build a woodshed with them." The Skeeles didn't get to the moon, of course, but instead of building woodsheds in middle life they have been able to provide comfort, enjoyment, and an education for their family. **END**

COMPLETELY MECHANIZED MILKING

with the

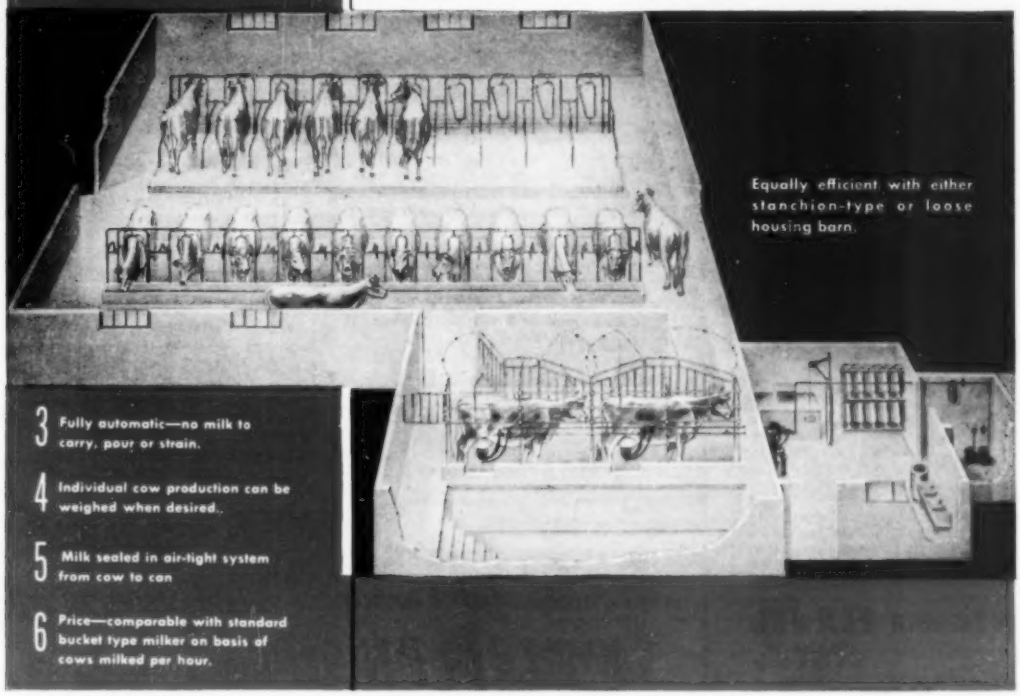
DE LAVAL MODEL F COMBINE MILKER

1 The cows bring the milk to the operator.

2 Operator works erect—no walking, stooping or squatting.

One operator, working comfortably erect in a simple, low-cost milking room, can milk 30 cows an hour with a 2-unit De Laval Model F Combine Milker. He doesn't walk from cow to cow—or from barn to milk house carrying, pouring and straining milk. The De Laval Model F Combine Milker does the entire job automatically—milks, conveys the milk to the milk house, strains it through a built-in filter and fills the standard shipping cans. It even weighs each cow's individual production when periodic checks are made. Throughout the entire milking, the milk is sealed in vacuum; odors and foreign matter are sealed out.

Easy to clean, simple to install and operate, the De Laval Model F Combine *costs much less than you may think*. Send coupon today for full information.



Equally efficient with either stanchion-type or loose housing barn.

3 Fully automatic—no milk to carry, pour or strain.

4 Individual cow production can be weighed when desired.

5 Milk sealed in air-tight system from cow to can

6 Price—comparable with standard bucket type milker on basis of cows milked per hour.

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Only AMERICA'S 2 BEST JAM and JELLY MAKERS..

CAN MAKE THIS PERFECT CHERRY-PEACH JAM

Imagine making prize-winning jam and jelly *every time* . . . and making it faster too! Imagine getting 50% more glasses—and saving on fruit and sugar! You can do it . . . with new Pen-Jel, the original powdered APPLE pectin!

PROVE IT with NEW PEN-JEL

Cherry-Peach Jam

1½ cups cherries 5½ cups sugar
2½ cups peaches 1 box Pen-Jel

Peel, pit and crush about 2½ pounds of fully ripe peaches (or enough to make 2½ cups prepared fruit). Pit and grind enough red, sour cherries (about 1½ pounds) to make 1½ cups fruit. Combine the two fruits with Pen-Jel in a large saucepan and place over high heat. Bring to a boil, stirring constantly. Now add sugar, bring to a full rolling boil – then start timing and continue boiling for 2 minutes, stirring constantly. Remove, skim if necessary and stir gently until jam begins to thicken; ladle into glasses. Cap or paraffin at once. Your jam will be tender, tart—delicious on toast and biscuits!

The Secret of PEN-JEL FOR MAKING JAM AND JELLY

Pen-Jel is made from natural *apple* pectin, the same thing grandmother used to make better jam and jelly! Pen-Jel does away with long wasteful cooking that "boils away" flavorful juices . . . giving you 50% more glasses for your fruit and sugar!

52 Tested Recipes Inside Package

Get Pen-Jel at your grocer's today!

A Product of PEN-JEL CORPORATION KANSAS CITY, MISSOURI

Cool and delicious

[*From page 43*]

Cherry-Lime Sherbet
Serves 6 to 8

Dissolve . . **1 package lime gelatine** in
1 cup boiling water
Add . . . . . **6 tablespoons lemon juice**
1½ teaspoons grated lemon rind
1½ cups sugar
Stir until sugar dissolves.
Add gradually
4 cups milk
1 cup finely chopped green cherries
Turn into refrigerator trays.
Freeze until partially firm.
Turn mixture into a chilled bowl.
Whip until fluffy and smooth.
Return to trays and freeze until firm.
—*Mrs. Blanch Gillen, New York*

Mint-Chocolate Chip
Serves 6

Crush . . . . **2 rennet tablets** in
1 tablespoon cold water
Combine **2 cups light cream**
2 cups milk
2 cups crushed white after-dinner mints
About 10 drops green food coloring
Heat slowly until warm (110°), stirring constantly.
Remove from heat.
Add rennet mixture.
Pour into refrigerator trays.
Do not move until set, about 10 minutes.
Place in freezing compartment and freeze until partially firm.
Turn mixture into chilled bowl.
Add . . . . . **½ cup shaved, semisweet chocolate**
Beat until fluffy and smooth.
Return to tray and freeze until firm.

Peppermint Stick Ice Cream
Serves 4 to 6

Scald . . . . **2 cups milk**
Add . . . . . **¼ cup sugar**
¼ teaspoon salt
Stir milk mixture gradually into
2 well-beaten eggs
Cook over hot water, stirring constantly, until mixture coats a spoon.
Cool.
Stir in . . . . **⅔ cup finely crushed peppermint stick candy**
1 cup coffee cream
Pour into refrigerator trays.
Freeze until partially firm.
Turn mixture into a chilled bowl.
Whip until fluffy and smooth.
Return to trays.
Freeze until firm.
—*Mrs. Verne Rawls, Illinois*

Lemon-Pineapple Ice Cream
Serves 6

Combine **1 package lemon pie filling**
1 cup sugar
5 tablespoons cold water
Heat . . . . . **2½ cups unsweetened pineapple juice**
Add gradually to lemon mixture.
Cook slowly until thick (about 5 minutes) stirring constantly.
Cool.
Stir in . . . . **1 cup milk**
Pour into refrigerator trays.
Freeze until partially firm.
Turn into chilled bowl.
Whip until fluffy and smooth.
Fold in . . . **¾ cup heavy cream,** whipped
Return to trays.
Freeze until firm.
—*Mrs. Douglas Meigs, New York*

Pineapple-Grape Sherbet
Serves 6

Heat to simmering
3 cups grape juice
Soften . . . . **2 envelopes gelatine** in
½ cup pineapple juice
Combine **4 egg yolks,** well beaten
1 teaspoon salt
Add hot grape juice to yolks gradually, beating constantly.
Heat slowly for 5 minutes.
Add softened gelatine; stir until it is dissolved.
Add . . . . . **1½ cups sugar**
1 cup pineapple juice
Pour into refrigerator trays.
Freeze until partially firm.
Turn into chilled bowl.
Whip until fluffy and smooth.
Fold in . . **4 egg whites,** beaten stiff
1 teaspoon lemon extract
Return to trays; freeze until firm.
—*Miss Hazel Watts, Ohio.* END

Successful Farming's Field Sales Staff is EXPANDING

IF you live in any of the below HEART STATES covered by *Successful Farming* and are looking for a sound service-sales proposition, enjoy working with farmers, and own a dependable car . . . YOU WILL BE INTERESTED IN WHAT WE HAVE TO OFFER.

Here are some of the advantages

★Above-average Earnings
★Well-known Reputable Company
★Unique Sales Plan
★Thorough Training Program
★Year-around Work

Write Division Office listed below TODAY.

Sid Beebe, Box 555, Sioux Falls, South Dakota
Art Schultz, Box 55, Grand Rapids, Michigan
Lloyd Akins, Box 537, Elgin, Illinois
Tom Reid, 818 Wyandotte Street, Kansas City, Missouri
Charles Fackler, 211 North D Street, Indianola, Iowa
C. R. Canfield, Box 511, Ravenna, Ohio

Flower boxes

[*From page 63*]

before putting in the soil. Once the soil is ready, the success of flower boxes is largely determined by the arrangement of the choice plants.

In arranging the plants put (1) tall-growing plants at the back of the box and toward the center, (2) dark foliage plants and flowers toward the center, and (3) light-colored foliage or flowers in front and toward the ends. Set the plants in so you'll get large blobs of color. If you don't, they will look like spatterwork or floral tweeds from the road.

In sunny locations, you can't beat geraniums for all-summer color in your flower boxes. French marigolds and dwarf zinnias are popular, too, and of course, pansies are unmatched for early spring color. High on the favorite list are petunias, both the upright growers and the "balcony" type that tend to "spill over" as they grow. Lantanas are good, as is coleus, and a star performer is the Kenilworth ivy whose charm lies in hundreds of blue and yellow blossoms.

For the shadier locations, usually on the west and north, petunias still will do themselves proud, and the white-flowered sweet alyssum will thrive. Great attention-getters and easy-growers are lovely small-leaved tuberous begonias which have an abundance of blossoms in seemingly endless succession. Periwinkle or evergreen myrtle with blue or white blossoms and English and Cavendish ivy are handsome trailers in shady locations.

The point is: Select your plants with a thought to location, and order those recommended as best growers for your particular spot.

Filling your flower boxes with potted plants is a convenient way to change your window boxes easily. Leaving the plants potted enables you to move in daffodils, tulips, and pansies in early spring, then replace them with other flowers as they come along later—forget-me-nots, gaillardia, petunias, geraniums, pinks.

You will find flower-box gardening a pleasant hobby. And the charm it lends to your house—well, the neighbors will tell you!

You will discover the loveliest flower boxes are filled to overflowing with blooms in bold color. When well tended, such boxes lend charm to even the oldest house. END

DAIRY EXPERTS PROVE

VEL* reduces bacteria counts...

Cleans milking equipment cleaner...faster...easier!

"No more high bacteria counts," says Mrs. Fordyce, "since we switched to VEL!"

"...and Vel cleans so much faster...saves me so much brushing. I won't clean our milking equipment with *anything* but Vel," added Mrs. Thelma Fordyce of Borden, Indiana, who farms 100 acres, milks 12 cows.

Be a quality producer...USE VEL!

It's impossible for bacteria to multiply or live in milking equipment that's cleaned regularly with Vel. Vel cleans so thoroughly it leaves no food for bacteria. That's been proved by one of the most prominent independent laboratories in the dairy industry! And Vel cleans so much faster! Easier! Vel flushes out milk fat and slime...cuts brushing to the minimum! For *cleaner* milking equipment—in a fraction of the time—use Vel!

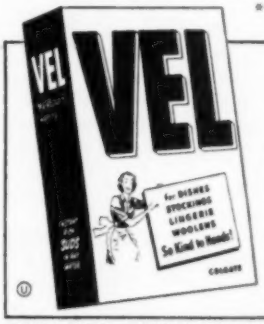
Soapless suds recommended by many agricultural schools

They clean so fast...so thoroughly! Not a soap...not a bactericide...Vel, a neutral soapless suds, is recommended *by name* by these milking equipment manufacturers: Perfection, Farmcrest, Conde and Hinman.

HOW TO CLEAN MILKING MACHINES FAST...WITH VEL:

1. Right after milking, run solution of hot water and Vel (1 tablespoonful per gal.) through unit, while shaking it. Then brush the milker head and hoses.
2. Remove head and sealing rubber and brush them with Vel solution. Replace parts; suck through a pailful of boiling water or sterilizing solution.
3. Dismantle and leave parts to dry. Just before next milking, reassemble machine; suck through boiling water or sterilizing agent.

*Vel is the trade-mark of the Colgate-Palmolive-Peet Company.



VEL cuts dishwashing time in half!

Dishes and Glassware Gleam Without Wiping!

Wash your dishes with Vel, rinse them, and even your glassware will dry sparkling clear. Vel leaves no soap scum or streaky film to polish away—cuts grease faster and more completely than soap possibly can—leaves no dishpan ring to scrub out. Vel cleans dishes cleaner than soap and saves up to half your dishwashing time.

BUY VEL FROM YOUR REGULAR GROCERY DEALER

WE TAKE A PATTERN

Sew cool for summer

This 4-in-1 pattern will laugh at the sun. Shuffle the outfits to follow your mood. Wear it as a sundress, a shorts suit, a playsuit, or a smart, go-to-town dress

Weskit. This doubles as a blouse with a sleeveless look, mandarin collar, nipped-in waist. 1¼ yards of 35-inch fabric makes a smart, comfortable size 14

Shorts. "Little boy" shorts are easy to style, fun to wear. Size 14 takes 1 yard of 35-inch fabric

Hat. Block the sun with this becoming cartwheel hat. Make it from 1⅛ yards of 35-inch fabric

Bodice. This shirred, strapless bra-top has style "plus" when worn with shorts for sunning or with a skirt for afternoons at home. Size 14 bodice requires 1⅛ yards of 35-inch material

Skirt. 1950 full skirt boasts *big* deep pockets, flaring hemline. For a size 14 skirt you will need 3¾ yards of 35-inch material

This is Advance Pattern No. 5337, available in sizes 12, 14, 16, 18, 20. At pattern counters everywhere. Or send 35 cents to the Advance Pattern Co., 331 E. 38th Street, New York 16, New York

Dollar for Dollar—

you can't beat a

PONTIAC!

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America's
Lowest-Priced Straight Eight

Lowest-Priced Car
with GM Hydra-Matic Drive
Optional on all models at extra cost.

Power-Packed Silver Streak Engines—
Choice of Six or Eight

World Renowned Road Record
for Economy and Long Life

Super-Safe, Super-Strong
All Steel Bodies By Fisher

When you're buying a new car, price is very important, of course. But even more important is *what you get for your money!*

Look at what you get when you buy a wonderful new Pontiac. You get a *big*, roomy, comfortable car—a car of distinguished *beauty*—a car offering such sparkling performance that it's *always* a pleasure just to sit behind the wheel and go! And you get, too, Pontiac's heritage of *thorough goodness*—your assurance that mile after mile, year after year, you will enjoy economical, dependable, really pleasant driving.

All these things—plus the pride and prestige of Pontiac ownership—are yours at a price *just above the very lowest!* You owe it to yourself to inspect these new cars carefully, to learn why—*dollar for dollar, you can't beat a Pontiac!*

THE MOST BEAUTIFUL THING ON WHEELS!

PONTIAC MOTOR DIVISION OF GENERAL MOTORS CORPORATION

# of course you can go in Swimming with Tampax!

NO BELTS
NO PINS
NO PADS
NO ODOR

Don't you be timid. Don't you give up swimming for whole week-ends or a good part of your vacation just because "it's the wrong time of the month." You can go in the water any day—if you use Tampax for sanitary protection. Many women have no hesitation about wearing Tampax in swimming. There's nothing to give them away!

Tampax is worn internally. It has no belts, pins or outside pads. Nothing to cause embarrassment in bathing suits, wet or dry. Try it yourself and see.... Made of highly absorbent cotton, Tampax is compressed in easy-to-use applicators. Quick to change. No disposal trouble. Wonderful relief on a hot day. No extra warmth. No chafing. No odor. Neither soft dresses nor snug shorts will show any "edge-lines."

It was a doctor who perfected Tampax. Millions of women have adopted it. Get it yourself. You will never want to go back to the other method. Sold at drug and notion counters in 3 absorbencies (Regular, Super, Junior). Average month's supply fits in purse. Tampax Incorporated, Palmer, Mass.

Accepted for Advertising by the Journal of the American Medical Association

How many deathtraps on your farm?

[*From page 26*]

Trap 4

Snoopy Sue doesn't know that the poison she just found was placed "out of reach." She doesn't even know it's poison. Keep all spray guns and syringes in *safe* places

Trap 5

Sure-fire death or a seriously burned child is the result of this sort of play. Keep matches, inflammable materials hidden from children. Forbid their use if found. Teach children what to do in case of fire

Trap 6

A stray dog may look like fun to Bobby, but the dog may be rabies-infected, or just not fond of playing with children. Teach respect—but not fear—of animals. Teach caution with bulls; teach care in walking behind horses in stalls or when hitched

Trap 7

Humpty-Dumpty falls result from leaving toys and other articles on the stairway. You can fasten a gate at the top of the steps to prevent your toddler from tumbling down. Encourage him to walk up and down stairs carefully, using the railing

now refreshes atmosphere as it cleans!

• Notice the fresh new fragrance Sani-Flush releases as it goes to work. It's the one women themselves selected—light and non-lingering. Quick, easy, sanitary as always for making toilet bowls sparkling clean. Safe in all toilet systems. At your grocer's; same price. The Hygienic Products Company, Canton 2, Ohio.

Sani-Flush

in the familiar yellow can
NOW FRESHLY FRAGRANT

Give Successful Farming, and your friends will be reminded of your thoughtfulness each month throughout the year.

Corns?

Fastest Removing Action Known To Medical Science!

NOW! FASTEST RELIEF

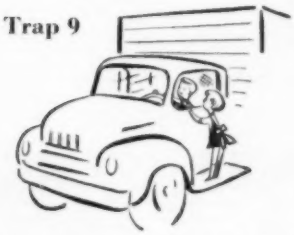
The instant you apply Dr. Scholl's Zino-pads, painful shoe friction stops, pressure is lifted. And no corn-removing action known to Medical Science is faster than Dr. Scholl's. Get a box today! At Drug, Shoe, and Dept. Stores.

Dr. Scholl's Zino-pads

Trap 8

Block that fall! Bring bathroom hazards to a stop with a rubber mat on bottom of tub and a grip on wall by the shower. Destroy used razor blades; label all drug bottles

Trap 9



Away they go—we hope not! Turning machinery on is dangerous. Forbid riding on tractors, fenders, drivers' laps. Check safety shields for belts, power take-offs

Trap 10

Shocking? Yes, indeed! All unused outlets should be plugged so children's fingers can't be burned. Keep frayed wires wound with tape and out of reach of little hands

Trap 11

Of real danger are loose lumber, tin cans, broken glass, rusty nails. Many an infection comes of injury from them. Keep your farm clear of them—and all other debris

Trap 12

Death is usually sudden when a car hits a child. It's *you* who must teach him to walk on left side of the road, to look both ways before crossing, to be careful. **END**

THIS MONTH

COLLINS QUADS

Safely past dangerous FIRST YEAR!

FAMOUS COLLINS QUADS: Barbara, Edward, Andrew, Linda. "See our Quads now!" says Mrs. Charles Collins of New York City. "They're all *so* happy and healthy! We've helped protect them against infection risks as many hospitals do, by using 'Lysol'."

THEIR MOTHER GIVES TIPS ON PROTECTION

"EVERY BABY," Mrs. Collins declares, "needs hospital-clean surroundings, because of infection danger in house dust. So every mother should use potent 'Lysol' brand disinfectant to fight disease germs. I've done this for our Quads daily, from their birth on, in *all* my home cleaning.

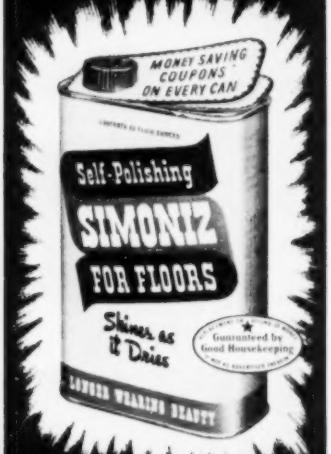
"'LYSOL' HELPS keep walls, floors, furniture—*all* surfaces healthfully, hygienically clean. I give the Quads' room and our whole house this constant, watchful cleaning care. It's economical—just 2½ tablespoons of 'Lysol' to each gallon of cleaning water."

"WOODWORK in the Quads' room, and every surface they touch, get thorough cleaning with dependable 'Lysol'. . . every day. That goes for our bathroom and kitchen, too."

NEW BABY at your house? Use potent "Lysol" when cleaning diaper pails. And every home with or without babies, needs "Lysol's" protection in *all* general cleaning.

MR. AND MRS. COLLINS inspecting their nearly completed new gift home. "Here, too, 'Lysol' disinfectant will be a daily cleaning *must*," Mrs. Collins so wisely says.

Get the world's
FINEST
Self-Polishing
WAX
for your floors!



Self-Polishing Simoniz OUTLASTS
...OUTSHINES THEM ALL!

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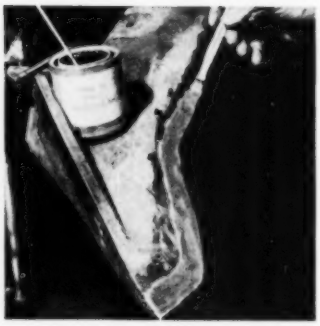
Worn points have a future if you hard-surface them

A Successful Farming how-to-do-it helper

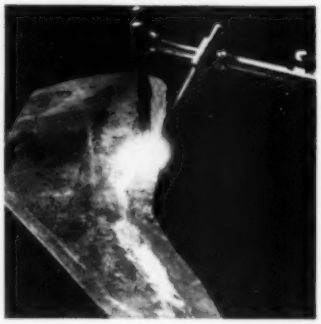
How to hard-surface a plowshare

By Richard W. Hufnagle

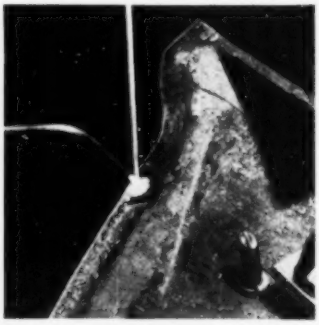
1. Clean point; then sharpen edges, as hard-surfacing adds thickness. Get *all* rust



2. Use prepared pastes or powders, or special welding rods. Apply the paste; let dry

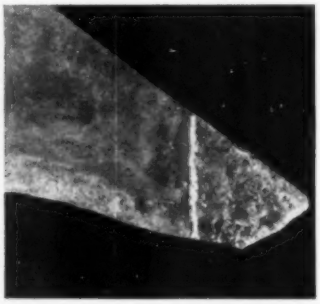


3. Heat with electric or gas torch. Move slowly, so share "sweats" ahead of torch



4. If using hard-surfacing rods, heat point so the rod flows into the molten metal

5. After edge has been surfaced, weld short extra length of rod to cutting edge



6. Cover top surface of point for about 4 inches, landside 2½ inches; sharpen. END

IN 30 SECONDS

YOU CAN LEARN IF YOUR CORN SUFFERS FROM NITROGEN STARVATION!

BOOST CORN YIELDS as much as 100 percent by proper fertilization. Your profits can be increased in the same amount — provided you know what your soil needs. Step One in finding out is to split a cornstalk lengthwise with your jackknife.

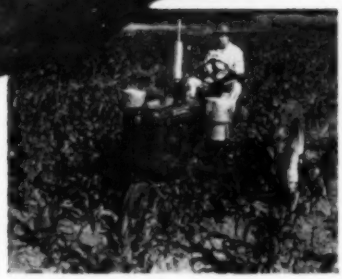
SPENCER'S FREE NITROGEN TESTER comes into play as you apply powder to the split surface of the stalk. It takes only a few grains of powder to give the indication. To be thorough, make the test on 4 or 5 stalks from different parts of your cornfield.

EXTRA YIELDS — EXTRA PROFITS for you — result from nitrogen testing. Step Three is to press the halves together to make sure of wetting the powder. An entire field can be spot-checked in a matter of minutes. Dr. Bray recommends testing three times — once in July, twice in August.

THESE TESTS COST YOU NOTHING! To help you invest in fertilizer wisely and use fertilizer efficiently, Spencer Chemical Company is making the Nitrogen Tester available free of charge! If adequate nitrates are present, the powder on the split stalk will turn pink.

NITROGEN DEFICIENCY in your cornland is now easy to detect, thanks to the nitrogen test powder developed by Dr. Roger H. Bray, soil chemist at the University of Illinois. In just 30 seconds, this amazing powder turns pink if your soil contains sufficient nitrogen to give you top yields of corn. And now Spencer Chemical Company, producer of Spencer Ammonium Nitrate Fertilizer, offers this tester to you *free of charge.* You don't have to wonder or guess about your nitrogen supply. When you follow the four simple steps above, you *know!*

FREE!
While They Last



SIDE-DRESSING with Spencer Ammonium Nitrate Fertilizer is possible right up to the last cultivation. If your July test shows nitrogen deficiency, the situation is serious and should be corrected if possible. Seventy percent of America's cornfields are nitrogen hungry, but if you check and supply the needs of your soil scientifically, a big yield can be yours at harvest time.

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609 Dwight Bldg., Kansas City 6, Mo.

I want to know if my corn suffers from Nitrogen Starvation. Please send me your free Nitrogen Tester at once!

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Super-Sensitive **Zenith FM**

Reaches far beyond ordinary FM . . . gets you more programs, beautifully clear day or night! Brings in your favorites where AM radios and many FM sets are practically useless. Plus sports, news, weather, market reports, music, available *only* on FM stations.

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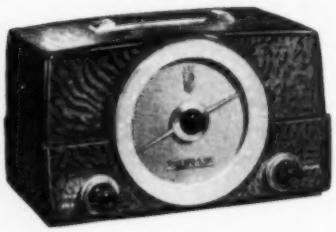

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Super-Sensitive FM only. Terrific performer, with big set power and tone. Walnut plastic cabinet. AC-DC. Only **$39.95***

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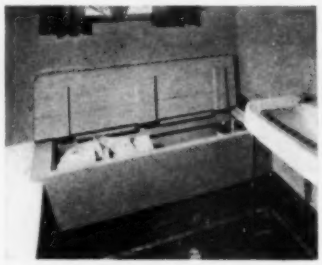
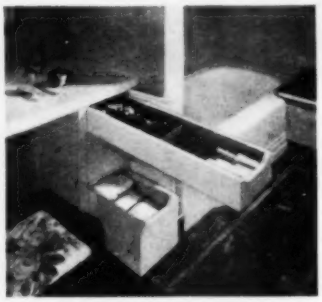
Here's a house full of storage

[*From page 47*]



A low bench at one end of bathroom is a convenient dressing aid, and provides a handy clothes hamper underneath the lid

Small peninsula between kitchen and dining area has drawers and shelves opening on both sides. This saves steps at mealtime



Dressing tables in master bedroom and bath are back to back. Long drawers extend through both; can be used on either side

Deep, pull-out drawers near the sink make it easy to get at pots and pans without stooping or unpiling stacks of equipment

Built-in corner benches in kitchen dining area open up to reveal deep chests beneath. Off-season things are kept here

It may sound like more thought went into the behind-the-scene storage than into the actual living areas of the house. One quick tour of the house will correct any mistaken thinking on that score. The living room is a long, rectangular room with fireplace, a full wall of windows, and an enclosed porch used by the men to rest before meals and on warm summer evenings after a hard day's work.

Then there's the wide central hall—connecting all the rooms—the storage center of the house. This storage hall is shown here. Around it the entire household functions in a neat and orderly fashion. Thanks to this hall, Mrs. Schrock never has to worry about where to put this or that. There's always a handy spot, convenient to every room.

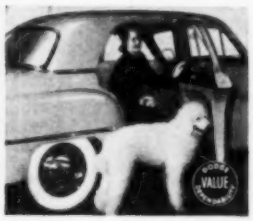
Every cabinet and drawer in kitchen was planned for specific items. Dumb-waiter to basement is in center of picture. END

Be Miles Ahead... Be Money Ahead...

DRIVE THE 1950 BIGGER VALUE DODGE

You could pay a $1,000 more and still not get all the *new beauty*... *extra roominess*... *famous dependability* of this big 1950 Dodge

BIGGER VALUE! Dodge Gyro-Matic, lowest-priced automatic transmission, frees you from shifting. (Dodge Fluid Drive on all models at no extra cost.)



BIGGER VALUE! Dodge doors are full-size and they open wide. It's so easy to step right in or out. No awkward stooping. No bumping your head or hat.

BIGGER VALUE! Huge rear "Picture Window" for safer driving vision. Wider rear tread means better road stability, added safety and comfort for you.

BIGGER VALUE! No bulky overhang in front or back to plague you. Dodge slips easily into tight parking spaces—is more maneuverable in busy traffic.

EVERYWHERE you go you hear Dodge called the BIG VALUE CAR of 1950. In crisp modern styling, in roominess, in ease of handling and ruggedness, in distance devouring power this new Dodge makes your dollars go farther.

Here is design that means a smarter looking car, a more comfortable car . . . a car that is easier to handle in traffic, easier to park. What's more . . . you'll thrill to the flashing pick-up of the Dodge "Get-Away" Engine . . . to the smoother performance of gyrol Fluid Drive, standard on all models at no extra cost.

But why just *read* about this wonderful new Dodge! *See* for yourself... drive a Dodge today.

NEW BIGGER VALUE 1950 DODGE *Just a few dollars more than the lowest-priced cars!*

The NEW Cereal that has EVERYTHING!

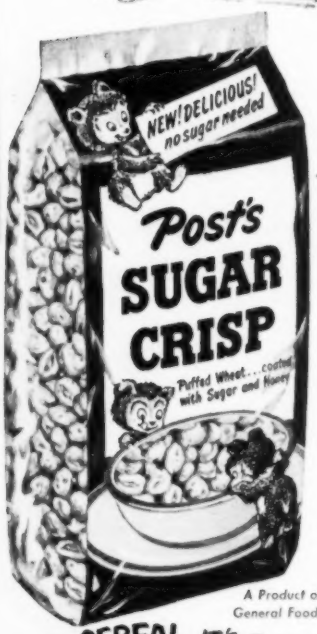
Post's SUGAR CRISP

AS A CEREAL IT'S DANDY!

Fluffy Puffed Wheat with a honey flavored coating toasted on—so sweet you don't need to add sugar. Just pour on the milk or cream and watch the whole family go for this "honey" of a new cereal!

FOR SNACKS IT'S SO HANDY!

So quick, so easy. Perfect for 'tween meal snacks. Good for kids too—wholesome *wheat* for nourishment, the special honey and sugar coating for flavor, plus *quick energy*. What a combination!



OR EAT IT LIKE CANDY!

It's fun to eat plain—right out of the bag. It's so sweet and crisp you'll keep on nibbling and nibbling. You just can't leave it alone. Put Post's Sugar Crisp on your grocery list now!

A Product of General Foods

AS A CEREAL IT'S DANDY—OR EAT IT LIKE CANDY!

The new movies

By Betty Camp

The other day I joined 75,000 people to see history relived at Rock Island, Illinois, the picturesque river city on the banks of the Mississippi. Hollywood came to town in full costume of Lincoln's day to stage the world premier of Republic's **Rock Island Trail.**

The motion picture tells the exciting story of the railroad's struggle to push across the wilderness to link the West and the East.

Residents of Rock Island went all out to portray the color and drama of the railroad saga. En masse they donned period costumes and pedaled tandem bikes down Main Street, or cruised about in old-fashioned carriages. Few men were without beards. Climax of the day came when the stars of the picture, Forrest Tucker, Adele Mara, Bruce Cabot, and Adrian Booth chugged into the station in the first Rock Island locomotive—soot and all.

According to the movie itself, that same train was met in 1848, not with cheers, but by savage red men with tomahawks, war paint, and flaming arrows. The chief construction engineer for the Rock Island who had the big dream of pushing the road to the west coast is played by Tucker, a former Iowa boy. The engineer's chief problems were the unwillingness of people to accept anything so toylike and new as a steam engine and the hostility of stagecoach and steamboat companies who feared competition from the railroad.

For instance, a riverboat tycoon (Bruce Cabot) goes to great lengths to throw a monkey wrench in the plans. Among other things, he burns the R.I. bridge spanning the Mississippi, puts dynamite in a boxcar, and incites Indian massacres.

As Tucker put it, "When we made the picture, we practically blazed the trail and built the railroad over again. Farmers particularly should enjoy this true adventure story, for the railroad opened

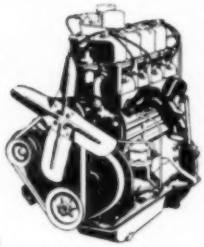
Bandleader Van Johnson makes a play for Esther Williams, *The Duchess of Idaho*

A NEW ½ TON WILLYS TRUCK

With *HURRICANE* Power

118-in. Wheelbase 4250 lbs. GVW

MORE POWER PLUS MORE MILEAGE!



Power increased 20%—a big decrease in fuel consumption—that's the amazing result of the new higher-compression *HURRICANE* Engine. It's an F-head engine with valve-in-head intake and valve-in-block exhaust. Compression ratio is 7.4-1, using regular gas. See this most advanced power plant—the *HURRICANE*.

Here is America's top truck value—the brand new ½ Ton Willys Truck—greatest in its field for all-around economy, performance and durability. Powered by the higher-compression *HURRICANE* Engine, it's a low-weight truck with a rugged chassis and a long-lasting functional body—engineered throughout to save you money. Maintenance and repair costs are low, too. You must actually drive this new Willys Truck to realize its power, economy, ease of handling and practical features. See your Willys dealer now—he'll be mighty glad to give you a demonstration.

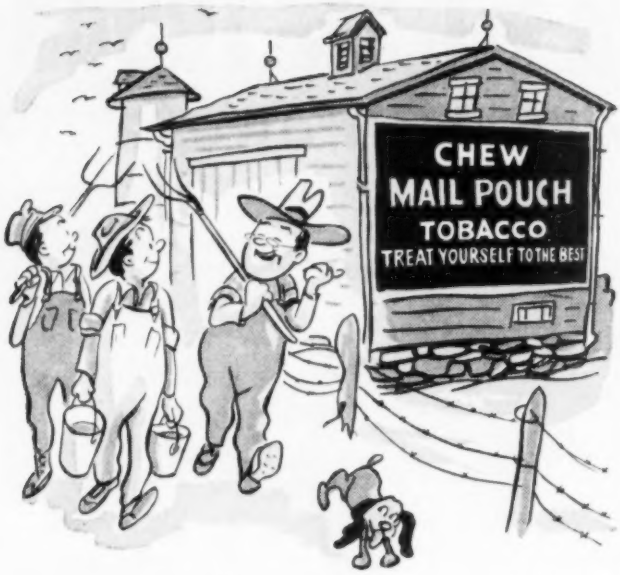
NEW 4-WHEEL-DRIVE WILLYS TRUCK

WITH "HURRICANE" POWER

With the extra power of its *HURRICANE* Engine, the new 4-Wheel-Drive Willys Truck is more than a match for the toughest kinds of farm hauling jobs. Ruggedly constructed for long service—low maintenance costs—money-saving economy from its *HURRICANE* Engine. Ask your Willys dealer to demonstrate the new 4-Wheel-Drive Willys Truck—the truck that goes through when others can't! Ton payload fits farm needs.

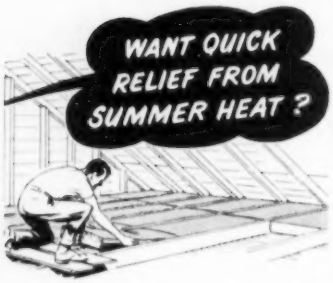
118-in. Wheelbase
5300 GVW

WILLYS-OVERLAND MOTORS, TOLEDO • MAKERS OF AMERICA'S MOST USEFUL VEHICLES



"We got a lot of work to do, boys—better treat yourselves to the best"

MAIL POUCH quality is in the tobacco. It isn't overloaded with sugary sweetness that tires your taste. That's why Mail Pouch Tobacco tastes better—lasts longer.



YOU'LL be surprised how cool your farm home will be this summer if you insulate the attic with Gold Bond Rock Wool Insulation. Light, easy-to-handle Sealed Blankets and Enclosed Batts come in standard widths. Fit snugly between attic floor joists or roof rafters. Gold Bond Rock Wool Insulation is fireproof...it can't burn. And it really blocks out the stifling heat of the summer sun. What's more, it keeps your home warmer in winter...soon pays for itself in fuel savings. Sealed Blankets come in 8 ft. lengths. Enclosed Batts in 2 ft. and 4 ft. lengths. Be sure you get "full-thick" Gold Bond Rock Wool Insulation for maximum efficiency and fire protection. Write Div. Y, Dept. SF-7 for free book of details.

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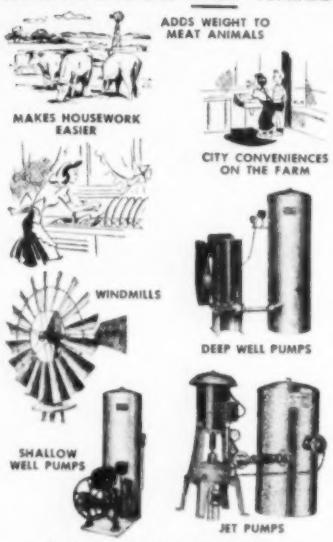

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Dept. 3607, 2500 Roosevelt Road
Chicago 8, Ill.

Four ways to start farming

[*From page 88*]

Mr. and Mrs. Tom Lloyd, Macoupin County, Illinois, have a profit-sharing agreement with their three sons: Jerry, 29; Dean, 27; and William, 26. Jerry and Dean are married, and each lives in a house of his own on a 240-acre farm. William is a recent graduate of the University of Illinois.

Because of college training, military service, and farm needs, the labor and management contributions of Jerry, Dean, and William have varied widely in recent years. The Lloyds, however, have worked out a successful agreement. Mom, Dad, and the boys each receive pay for his or her work on the farm. Then, before net returns are divided, the parents receive 5 percent interest on their investments in real estate and operating capital. The net returns are divided equally among Mom, Dad, and the boys.

Father-son agreements like those followed by the Cenders, Ludwigs, Klines, and Lloyds vary with farm and family needs. Families with profit-sharing plans agree, however, that certain basic principles must be followed if the plan is to be a complete success:

You need (1) a business big enough to provide profitable employment to all persons working on the farm or depending on the farm for income; (2) efficient management; (3) complete, accurate records; (4) cooperative planning; (5) good living arrangements, such as separate living quarters if there are two families; (6) guaranteed income to the son until he has accumulated enough cash reserves to take care of his immediate needs; (7) equitable sharing, or division of income between fathers and sons in proportion to the value of their individual contributions; (8) frequent adjustments; and (9) a written agreement to prevent misunderstandings, to protect the parties and family in case of death, and to provide income tax evidence. **END**

Editor's Note: These essentials are clearly outlined in Circular 587, "Illinois Father-Son Farm Business Agreements." This circular explains three plans that fathers and sons can follow. It also contains the agreement forms printed in full and ready for use. You can get a copy by writing the Department of Agricultural Economics, College of Agriculture, University of Illinois, Urbana, Illinois.

SUCCESSFUL FARMING

"The main feature start yet?"

Forrest Tucker leaping to defend a train against the Indians in *Rock Island Trail*

the Cornbelt and the granaries of the West."

In quiet contrast is MGM's **Duchess of Idaho,** which stars Esther Williams of bathing-suit fame, freckle-faced Van Johnson, and John Lund. The feeble plot is saved by Eleanor Powell's fast dances, Mel Torme and torrid Lena Horne's warbling, and the sports skills of Miss Williams.

An unusual pool was built for one of the elaborate swimming sequences. Constructed of mirrors, the pool reflects 12 separate images of Miss Williams as she does her new water routine. In addition to swimming, the star is stunning on skis, ice skates, and in golf and tennis togs.

Too, the cool beauty of Sun Valley, where the story takes place, will give you a refreshing escape from midsummer heat.

Another thriller, **The Capture,** is laid against the background of mucky, dusty Mexico. Lew Ayres plays the role of a fugitive who seeks to prove the innocence of a man he killed. In so doing, he becomes involved romantically with the man's young widow, Teresa Wright, who is attempting to carry on alone at her ranch.

The plot has a psychological twist which lifts it above the average, and you are kept in suspense as to the outcome until the final curtain. (RKO)

Recommended for laughs: **The Good Humor Man.** Jack Carson sells the famous ice-cream bars in this rough and tough slapstick comedy. (Columbia) END

The Capture: Lew Ayres surrenders on the advice of Teresa Wright and Victor Jory

Only $12.50 down!

BURROUGHS ADDING MACHINE

speeds farm figure-work

This easy-to-use Burroughs makes all the difference in the world in your record keeping. It saves time and work. It cuts out the drudgery of mental arithmetic and refiguring!

Use it to figure all your income . . . milk or butterfat, poultry and eggs, crops, livestock. Use it for all your records of expense, and in figuring your taxes.

Every Burroughs is fully guaranteed. Model shown, full 8-column capacity, $125 plus applicable taxes. As little as $12.50 down, the balance in easy monthly payments.

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☐ Ship machine. Check for $12.50 enclosed.
☐ I would like a demonstration on my figure work. No obligation.

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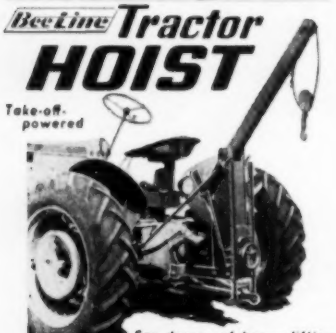
SF-67

Bee Line Tractor HOIST

Take-off-powered



For dozens of heavy lifting jobs on every farm!

The Bee-Line Hoist is easily mounted and does not interfere with drawbar. Raises loads for dumping—positive brake holds load in any position.

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Write today for complete information.

Bee Line co.
DAVENPORT IOWA U.S.A.

Four ways to start farming

[*From page 20*]

started a profit-sharing agreement with his dad—who then was farming 320 acres. Emery and his wife, Mattie, talked it over. As Emery says, "We wanted to give him a start at farming without favoring him over the other children." That still is the over-all guiding principle where four sons have one interest or another in the farming.

Meanwhile, two things have changed: the size of the business and the way the farm is operated. Of the original 320 acres the Cenders were farming four years ago, 240 were owned by them and 80 were rented. Today, they operate 760 acres, of which 320 are owned and 440 are rented. They enlarged and improved the hog, beef, and dairy enterprises as the boys accepted an interest in the farming. Today, all four sons (Malon, 21; Milton, 20; Eldon, 19; and Lowell, 17) share the work and the returns. Ask any one of the boys what kind of work he likes best. The answer: "Farming!"

Up until last year, Malon and Milton each received 15 percent of the net returns from the entire farm business. Eldon and Lowell each owned one-fourth of the 8-sow hog enterprise (about 100 hogs a year). It was purely a business arrangement where, together, they owned half the hogs, paid the farm business account for half the feed fed, and together they got half the check when the hogs were sold.

Malon and Milton's agreement with Dad is in writing. It provides for a settlement at the end of the year. However, each receives $60 a month as an advance against his share of the year's earnings. Until last year, these two older boys invested part of their savings in the farm business. Each owned 15 percent of the dairy herd. They also owned a tractor together.

When Eldon finished high school last spring and was ready to join the farm business, the farm operations had grown to such large proportions that partnership arrangements were changed. This kind of divided ownership created a problem in keeping records, so Emery bought back the boys' interest in the business. The new agreement provides for each of the three older boys to receive 10 percent of the net farm returns.

Ten percent may not sound very large, but remember this is a large, efficiently operated farm. Ten percent on this farm could amount to more dollars than 50 percent on a small, inefficiently operated place.

Milton, Emery, and Malon Cender believe several heads better than one in farming

Another type of profit-sharing agreement is in operation on the Holly Ludwig farm, Vermilion County, Illinois, where two sons have an interest in the farm business. Jake, who is 21 and married, and Jack, 19, have each bought an interest in their father's machinery, livestock, and other operating capital. The agreement provides that after all expenses are paid—including 5 percent interest on the father's investment in the 275-acre farm—the net returns from the farm are divided among Jake, Jack, and their father.

This agreement is the outgrowth of a plan that started four years ago between Dad and three sons—Gene, Jake, and Jack. At that time, Gene, the oldest, received 18 percent of the net farm returns; Jake and Jack each received one-sixth of the gross sales from a high-producing herd of about 30 dairy cows. This plan was all right, but the business wasn't large enough. There wasn't full-time employment for everyone. Also, there were houses for only two families. The situation ironed itself out when Gene, who now is 24 and married, moved to the West.

Meanwhile, 7-year-old Gary, youngest in the family, is growing up and will become a member of the partnership.

Besides the four boys, there is a sister, 13-year-old Ann. You ask, "Will she also share in the farm returns?" Yes, but not as a working member of the farm business setup. Like the others, Ann shares the atmosphere of good family living. Eventually, she will share in the ownership of a good farm made possible largely by the cooperative father-son business plan.

Still another type of father-son agreement is followed by Byron Kline and his two sons, Harry, 24, and John, 21. This is the fourth year for the Klines to operate on a co-tenant and crop-share basis.

Here's their arrangement: Dad and the two sons each contribute one-third of the tenant's expenses, and each receives one-third of the tenant's income. Byron owns 196 acres and rents an additional 280 acres. As landlord, he receives one-half the production and pays all the landlord's expenses on his own land. This is in addition to his one-third interest in the tenant's income and expenses.

Harry and John have a substantial investment in the business, but not enough to own one-third of what the tenant normally would. This difference in operating capital is adjusted at the end of the year before profits are divided by paying Dad and the two boys 5 percent interest on their actual investment. This payment comes out of the tenant's farm income.

All of the tenant's share of the income from the farm is deposited in a farm bank account. All the tenant's expenses are paid out of this account by check, except for small amounts. Each son receives a drawing account. This is charged against his share of the net returns when the books are closed at the end of the year.

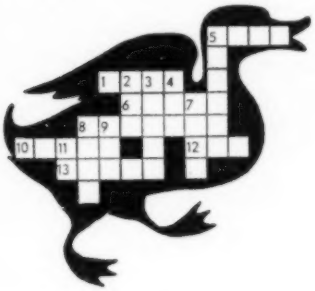
[*Turn to page 90*]

HOUSE

meet every month

But these are fine stepchildren, just the same! You should feel very proud of them! And as chickens can't swim, just go in swimming yourself. Let them stay on the bank and scratch for worms. Do you hear?"

"I hear," answered Mother Duck, "and I shall take your advice. Come on, little children. Quack! Quack!"



Crossword quiz

Across
1. Tiny pieces
5. Uncle Pin-feather is one
6. One of Mother Duck's family
8. You see movies here
10. Number 3 in line
12. Yes
13. A duck noise

Down
2. Frozen water
3. Express your appreciation
4. To perch
5. A jackass
7. To pack full
8. Not false
9. Home demonstration agent (abbr.)
11. Intelligence rating

Answers:
Across: 1. bits, 5. duck, 6. chick, 8. theatre, 10. third, 12. aye, 13. quack; **Down:** 2. ice, 3. thank, 4. sit, 5. cowley, 7. cram, 8. true, 9. H.D.A., 11. I.Q.

Fun for little cooks

"Red-hot Firecrackers" are Fourth-of-July specials! You can make 30 of them in just a few minutes. Here's how you do it:

Mix together
2 cups powdered sugar
1 pinch salt
Melt **½ cup red-hots** in
3 tablespoons water
Add melted red-hots to powdered sugar.
Add **1 teaspoon vanilla extract**
1½ tablespoons water
Stir until smooth; spread this frosting on
30 graham cracker strips
Press coconut strand on one end of each cracker for wick. **END**

"—and when we have tender, tasty, Star-Kist Tuna... the plates are always cleaner, too!"

The plates are always cleaner after dinner when you've served Star-Kist Tuna because the flavor is better. Only the smaller (light, mild, tender) tuna are packed under this brand. The naturally more pleasing, delicate flavor of these smaller (light, mild, tender) tuna makes any dish taste better. For salads, sandwiches, hot-dishes, use tender, tasty, Star-Kist Tuna every time!

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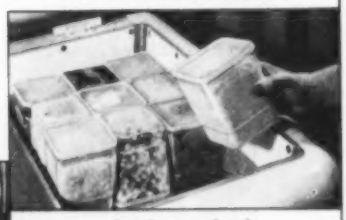

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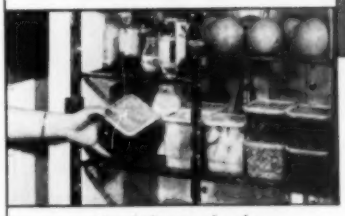

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- See the Contents in FREEZ-TAINERS!
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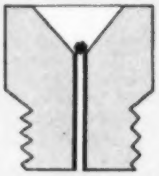

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For better Insect control use

NEW Sinclair Stock Spray!

New Bang's vaccine

[*From page 33*]

As to clearing up after vaccination, Peterson says, "We have not noticed any difference between cows and calves in time of clearing up."

When asked whether the injection of this vaccine affected production of milk cows, he replied, "These cows are on test, and we practice daily weighing of milk. There was no noticeable drop in milk flow after vaccination."

Followed up Strain 19. Art Leitch, who has a good Holstein herd in Montcalm County, has been living with Bang's since it showed up in his herd in 1943. His case is interesting because he used Strain 19 in the herd before going to Brucella M, and because he chose to keep reactors. He was another who got Brucella M before it was released for general use.

The herd was vaccinated in March, 1947. Up until that time he had had a dozen abortions from Bang's disease. The prevaccination test showed three reactors and several suspects. Most of the suspects probably were showing from the Strain 19 vaccination. The herd totaled 50.

Everything was vaccinated, including those vaccinated with Strain 19, with the exception of calves under 8 or 9 months of age. Reactors have been kept, and young stock vaccinated at 9 months or so.

There have been no abortions in the cows that tested clean before vaccination. Though he's had no retest since vaccination, Leitch feels his Bang's problem is whipped. At the time of this report he was expecting a test under the area-testing program. As for effect on milk flow, Leitch's experience has been the same as Peterson's, and his calves don't go off feed after vaccination.

Resisted a tough case. Brucella M has been used in bad situations where infection was heavy, housing not the best, and the farmer couldn't afford to get rid of reactors. In one case the prevaccination test showed 14 reactors, 3 suspects, and 12 clean cows in March of 1948. The clean cows were vaccinated with Brucella M, but the farmer felt he couldn't afford to get rid of the reactors. The herd was crowded in pen-type housing, making proper handling of litter impossible.

The reactors have continued to lose calves, but none of the vaccinated cows has aborted. No retest has been made, but young stock is being vaccinated at 8 to 9 months.

No one advises giving the vaccine a severe test such as this, but it does indicate that animals vaccinated with Brucella M have taken heavy exposure.

Looked good in survey. These are individual cases. For evidence of the value of Brucella M as used in a large number of herds, we can take a look at a survey completed by Dr. B. J. Killham, Michigan State College extension veterinarian, and some of his associates. Doctor Killham's survey was made in three Michigan counties and involved prevaccination and postvaccination records on more than 5,000 cattle in a total of 428 herds.

For a general comparison, Doctor Killham combined the records of all the herds vaccinated with Brucella M in all three counties and stacked them against the records in those herds where Brucella

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8 MARKET HOGS PER LITTER . . ."
George Bluhm, Herdsman,
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"You've got to have strong, thrifty sows and pigs, and you've got to feed and care for 'em right to get an average of 8 market hogs a litter," says George Bluhm, Herdsman for the Dr. William Scholl Woodland Farm, Laporte County, Ind.
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"And then, the animal and sea-food proteins with natural APF, and also the minerals and vitamins in Hog Mintrate 45, seem to give our sows extra vigor, and make our pigs grow and develop extra fast. To get the full benefit from Mintrate, we feed approximately ½ lb. per day to sows and gilts with ground grain and alfalfa hay from the time they're bred. We mix it with corn and oats for creep feeding pigs.
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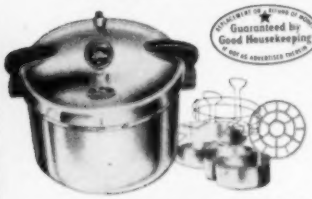

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The PLAY

Where Playfellows

Mother Duck's children

One hot, sticky July day, when old Mr. Sun was smiling his brightest smile down on Farmer John's barnyard, young Mother Duck gathered her 15 children together for a swimming party. "Come, children," she said, "follow me down to the old millpond. The water's cool and you can splash to your heart's content."

"We don't want to go, Mother," they peeped. "We'd rather stay right here and scratch for worms."

"Nonsense, come along, come along!" quacked Mrs. Duck. And she shooed them down the path to the pond.

"Now follow me, dears," she called as she slid over the bank. But her brood stood fast. "We don't want to go swimming, Mother," they cried.

"Why, who *ever* heard of ducks not liking to swim?" thought Mrs. Duck. And that very afternoon she consulted her sister Minnie.

"They are lovely yellow children," said Minnie Duck, "but their bills aren't right. They're short and narrow and sharp at the ends, not full and flat like ours."

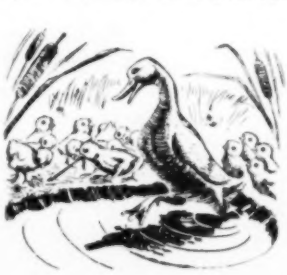
"Now, I never thought of that," exclaimed Mother Duck. "But even so, their bills shouldn't make them afraid of the water. I think I'll ask Aunt Dora Duck, too."

Aunt Dora said, "Tut-tut!" as she studied the children carefully. "Nice healthy youngsters you have, but there seems to be something wrong with their feet. Their toes are long and slender, and there are no webs between them."

"What do you know about that!" cried Mother Duck. "But they still should want to swim and bathe like other ducklings. I'd better talk to wise Uncle Pinfeather."

Uncle Pinfeather scratched his head and looked very grave indeed as he listened. He was quiet a long time. Then he said, "They call 'Peep-peep' instead of 'Quack-quack,' Mother Duck. Hadn't you noticed that? My advice is to tell your trouble to Grandmother Duck. She's old and wise. She can help you."

When Grandmother Duck put on her spectacles and looked down at the little fellows, she laughed softly. "My dear child," she told Mother Duck, "these babies aren't ducklings at all. They're chickens. The farmer's wife set hen's eggs on your nest, and you hatched them out.



M had not been used. And it adds up to the fact that the reduction in reactors and suspects in the vaccinated group was around 100 percent greater than in the group where Brucella M vaccine had not been used.

Why some don't like it. As you might expect, there are farmers in Michigan who look down their noses at Brucella M. You can find those who feel the vaccine has done their herd more harm than good. You can find those who claim it has actually brought Bang's *into* their herds.

Doctor Killham has checked into a number of these cases and has cleared up each of them. The basic trouble is that the farmer did not know all the facts about either Bang's disease or the Brucella M vaccine. He expected too much.

With that in mind, here are some facts to remember about Brucella M, in case you ever need it and are able to get a crack at it for your herd:

Brucella M will not cure a reactor. It will not cure a suspect. It will not prevent an animal in the incubation stage at the time of vaccination from coming on down with Bang's disease. It will produce immunity to Bang's in those cows not reacting, not showing suspect, or not incubating at the time of vaccination.

Advise frequent vaccination. One important development is the recent recommendation from Doctor Huddleson that cattle be revaccinated with Brucella M every two years to insure their continued immunity. According to his statement, he has felt all along that this was about the length of time for which immunity could be established.

This has been borne out by experience in one Michigan herd where the vaccine was used over two years ago and reactors have been kept. A recent test of this herd showed two of the cattle which had been vaccinated and tested clean after vaccination have become reactors.

What about cost? Naturally, you're wondering about the cost of Brucella M vaccination. It varies a little with different veterinarians, but Michigan farmers do not have to pay a premium to get it for their herds. Regulations do call for a herd test at least 30 days before vaccination, and of course the veterinarian expects the farmer to pay the cost of the test.

So that's the way things look for Brucella M vaccine, and we now must wait until the Bureau of Animal Industry has had time to appraise the findings of the controlled experiments in such states as California, Illinois, Ohio, and West Virginia. We must be reasonably patient at this stage, for several reasons.

[*Turn to page 97*

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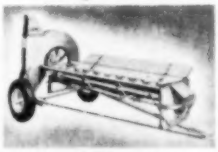

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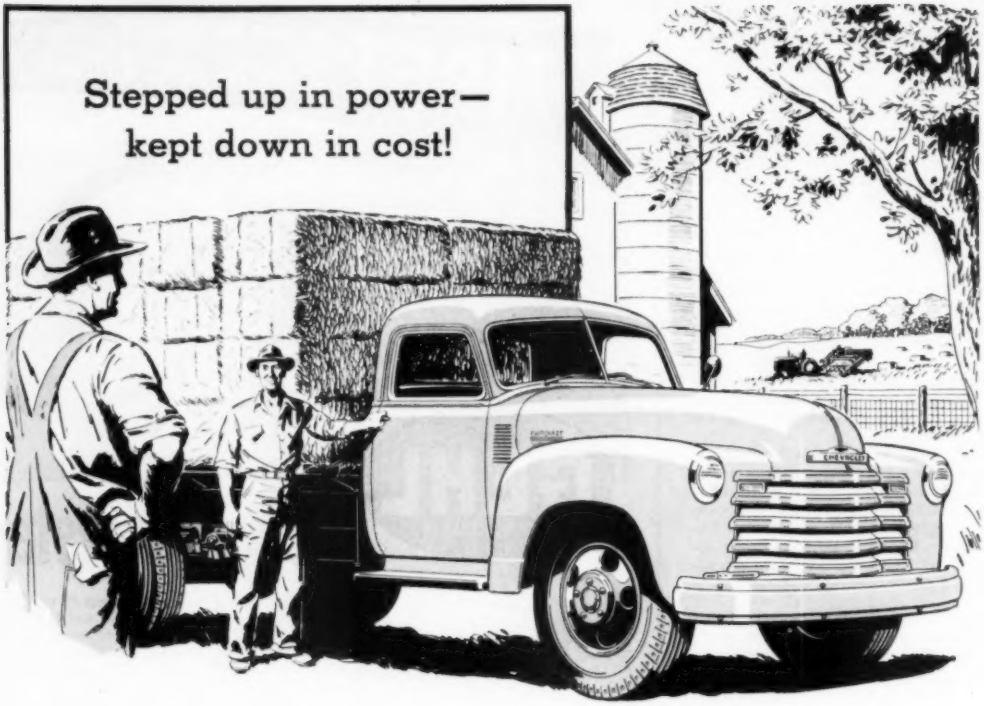

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New Bang's vaccine

[*From page 95*]

Why cautious about approval. In the first place, the brucella germ, like all bacteria, can change from one form to another. In the vaccine, it could be disastrous if the organism should revert to a dangerous phase. This possibility is especially sobering when we recall that the Brucella M vaccine is made from the swine strain (Brucella suis) rather than the cattle strain (Brucella abortus). And the swine infection in cows is dangerous.

Fortunately, no instance has been found, either in the field or experimentally, where the Brucella M vaccine organisms have changed to a more virulent form.

Another question, still to be answered fully, is whether the bacteria in the M vaccine can infect humans, or whether vaccinated animals might throw off the types of bacteria that would infect humans. So far, neither has been known to happen.

Then we have the problem of manufacture. Production of Brucella M is reported to be such a difficult operation that commercial companies cannot make it without careful supervision. At this writing, the Bureau had not received a single request from a commercial biological house for a license to produce this vaccine.

Need patience, but definite action. Yes, the U.S.D.A Bureau of Animal Industry shoulders quite a responsibility in deciding whether Brucella M vaccine should be licensed for interstate sale. That's why we should be patient.

Our big hope is that the facts will receive careful and prompt consideration, and that a decision be reached in the least amount of time consistent with good judgment and ultimate safety. Brucella M apparently has much to offer for owners of beef and dairy herds—too much for unnecessary loss of time. **END**

Why you say it!

Early Anglo-Saxon farmers noticed that one of the most prominent characteristics of a young calf is its long legs, which make such an animal appear proportionately taller than full-grown cows. So they combined their words for "high" and "fore" and called a calf a *heahfore* (high-in-the-front).

Over a period of centuries, the name came to be applied to female calves, and slight changes in spelling produced the familiar *heifer*—still awkward, and likely to be "high-in-the-front"!—*Boyd Wood.*

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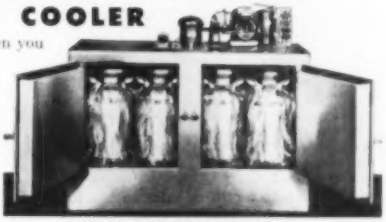

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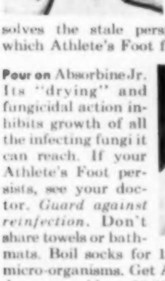

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The dinner had not satisfied the guest's lusty appetite. It had been just a dip of this and a dab of that. At the end of the meal the host politely asked the guest to do him the honor of dining with him again soon.

"I'll be glad to," the guest said. "Let's start now."

Wrong Plea

Two judges were arrested for speeding. When they arrived in court, no other judge was present, so they decided to try each other. The first judge went up on the bench and said: "You are charged with speeding. How do you plead?"

"Guilty," was the answer.

"You are hereby fined $5."

Then they changed places, and again the plea was "Guilty."

"Hmm," said the other judge. "These cases are becoming far too common. This is the second case of this sort we've had this morning. I hereby fine you $10 or 10 days in jail."

Universal Situation

A tall, bowlegged Texan was touring England. Whenever he got a chance, which was quite often, he would josh the Britishers about their "midget" country. He irritated one man who asked him to give the dimensions of his wonderful state.

"Waal," drawled the Texan. "I don't rightly know just how big she is, but I do know that you can board a train and 24 hours later you will still be in the Lone Star State."

This was the break the Englishman had been waiting for. "But what does that prove?" he asked. "We have trains like that here, too."

The Error of Our Ways

(Culls From the News Columns)

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Dentist, long established, wants to purchase small tractor.—*Chicago (Illinois) Herald and Examiner.*

Powerful Pussy

The cat picks up the house in its mouth, carries it upstairs, but never harms it.—*Terre Haute (Indiana) paper.*

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U. S. scientists to visit America.—*Ann Arbor (Michigan) paper.*

May Blow His Top

Pumping steam from a threshing machine engineer has been continuous for several days.—*Council Bluffs (Iowa) paper.*

Scaring the Bunnies to Death?

He had been haunting rabbits all day with a ferret.—*Philadelphia (Pennsylvania) Inquirer.*

Laying Down on the Job

J. R., bread baker, is the best loafer in town.—*Greensburg (Pennsylvania) Review.*

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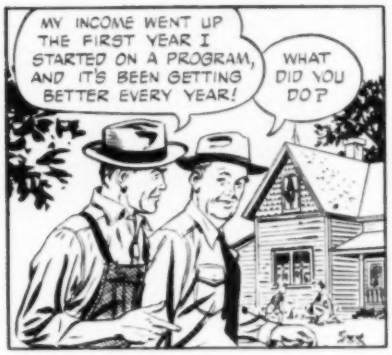

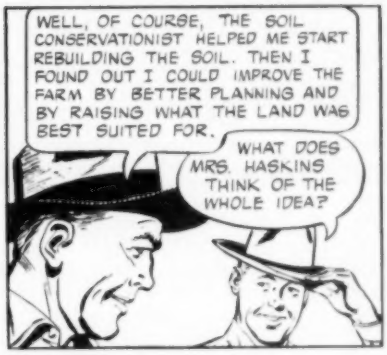

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BEAR-CAT cutting heavy irrigated corn two rows at a time, at end of field.

PHOTO FAR RIGHT
BEAR-CAT cutting 20 ton to the acre sargo.

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Pig hatcheries

[*From page 48*]

Of course, many feeder pigs are sold through sales barns. But hog raisers would prefer to buy their pigs direct from a producer who they know has raised his pigs under clean, disease-free conditions.

Pigs at the Weix hatchery, managed by Al Haller, are vaccinated for cholera at 8 weeks. A tissue vaccine is used because Haller finds that it causes fewer setbacks

Much native lumber was used in farrowing pens, which have brooder, self-feeder, and automatic watering cup. In picture above, hay is being fed to pigs and sows in pens

Al Haller sprays pigs and sows to control lice and flies. Job is done regularly. Formerly BHC was used, but now Haller has switched to methoxychlor and Toxaphene

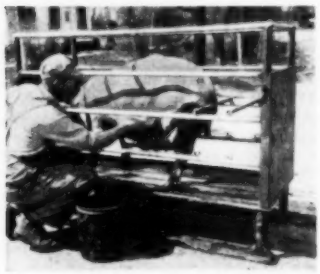
I saw a bunch of weanling pigs, averaging about 35 pounds and neither castrated nor vaccinated, which were trucked into northern Iowa this past spring at $12.75 per head. These pigs were obtained in Wisconsin through one of the weanling pig markets, not a hatchery. The loss of the weanling pigs sold through the market is estimated to be 5 percent or more to the feeder. But the hatchery pig loss has run only 1 percent, or less.

How much the buyer of feeder pigs can make will depend upon how much weight he gets for his money, how good a feeder he is, and the price he gets for his hogs. As a rule, the heavier pigs are bought to a better advantage than light pigs.

A buyer can figure rather closely as to what he must have for his finished hog, if he will allow for the equivalent of about 350 pounds of grain and 50 pounds of supplement for each 100 pounds of gain. He cannot figure on increasing his return by improving or raising the grade, as does the cattleman.

Anyone who raises weanling pigs to sell, and succeeds at it, must be a better pig raiser than his customers. He must produce and offer for sale good, thrifty pigs.

Hatchery pigs are usually raised in total confinement. The confinement method—while it doesn't expose the pigs to disease, infection, and the common hoglot parasites—does present a tougher



This sow-washing crate helps greatly in sanitation program at hatchery of M. M. Thompson and sons, Forest City, Iowa

feeding problem. The ration for the sow and the pigs must be better than for hogs on pasture. Anemia must be combated when the pigs are confined for a long period in the farrowing pen.

The most critical of all hog feeding is involved in the production of pigs to weaning age. Also, every effort must be made to reduce the labor involved in feeding operations.

From start to finish, Haller self-feeds both the pregnant sows and the nursing mothers and pigs. The winter ration for his pregnant sows contains 40 percent of good-quality alfalfa hay, and the nursing ration contains 12 percent. The pigs eat the ration of the nursing sows, which contains about 15 percent protein.

Last year, Haller ran 100 sows on 9.2 acres of Ladino clover and alfalfa from the middle of May until the middle of August. He fed the 100 sows *only 2 bushels of corn daily* during the last two weeks of pregnancy!

The pig hatchery need not have elaborate equipment, but it should be good enough to do an adequate job (see picture, page 100). The spreading of the

[*Turn to page 102*

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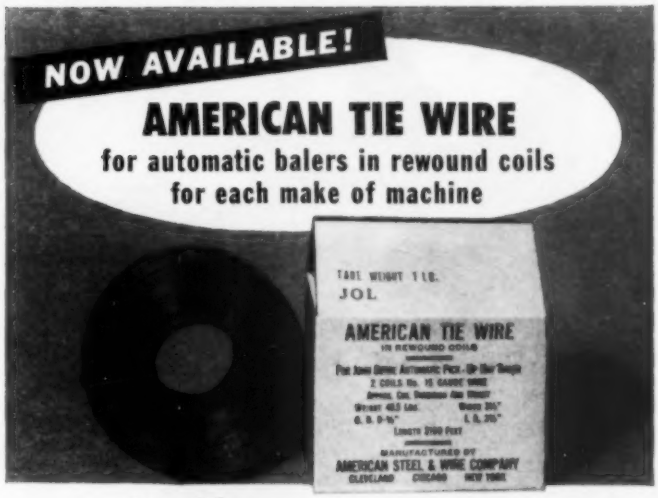

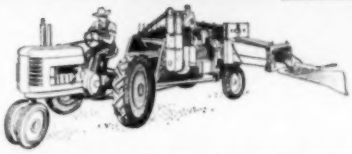

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Pig hatcheries

[*From page 101*]

farrowing also must be such as to permit multiple use of the equipment. The Thompsons aim to have farrowings about 10 weeks apart so the same equipment can be used over and over. Al Haller has sows farrowing every month of the year, the heaviest months being February, March, and September.

As the margin of profit is small, the pig hatchery must do a large volume of business. The operator of one successful pig hatchery figures he must have a minimum return of $75 per litter to break even. Weanling pigs, averaging around 40 pounds and castrated, vaccinated (with B.T.V.), and wormed with sodium fluoride, have been selling in Wisconsin at $15 to $16 per head, depending upon size and quality. In Iowa, the price has fluctuated around $14.

Hatchery pigs must be raised free from disease and parasite infection (see pictures, pages 100 and 101). One so-called hatchery fizzled out because the owner just could not raise thrifty pigs.

Today's buyers of feeder pigs know hog type when they see it. They demand a good-feeding pig as well as one which will yield a desirable carcass. Type is emphasized more than the breed, although prolific breeds are preferred.

Al Haller says, "You know, I want to get the very best brood sow qualities in my sows. I want them to be prolific and good milkers with 7 teats on a side.

"I find it difficult to get the good feeding and the best milking and reproducing qualities all in one package. Therefore, I am not so particular how the sow looks, just as long as she looks like one that will produce the pigs and nurse them well.

"I'll look for more of the feeding quality to come from the boar. I buy production-tested boars—usually mature boars that have proved themselves—and when I put the two together, I get the pigs, and good-feeding ones."

> **The basis of international peace and understanding can be found when we learn to respect the dignity of the human soul, no matter what its race or creed or color.**
> *—Gen. Carlos P. Romulo, President, United Nations General Assembly*

Therefore, Haller crosses for the most part. Hampshire blood predominates.

The sow herd for a hatchery should be made up of about 75 percent tried sows and about 25 percent gilts coming on for replacements. Tried sows on the average will save one more pig per litter than gilts, and the pigs will each weigh about 40 pounds or more at weaning time.

The success of a pig hatchery depends considerably upon the kind of place to which the pigs go after they're sold. The hatchery must have repeat orders, so the operator must give some thought to the buyers of his pigs.

Pig hatcheries may never become as essential to the pork industry as chick hatcheries are to the poultry business. But they can become the most economical source of good feeder pigs for many a farmer in the years ahead. **END**

Veterinary

Algae is poisonous

REMEMBER the slimy, green stuff which floats on top of the water in tanks and ponds? Well, just remember, too, that there may be enough of it in watering places to kill some of your livestock this summer. Even fairly large lakes can be dangerous when strong winds are blowing, as algae may then be massed along shore lines where animals drink. Rather than mess around with poisons to kill the algae, your time will be better spent in.

1. Draining or fencing off pools of stagnant water.
2. Watching shore lines for algae accumulations and watering animals somewhere else when they appear.
3. Frequent draining and scrubbing of stock tanks.

Besides preventing algae poisoning, such steps also will protect animals against disease germs and parasites often found in dirty water.

Sell those ruptured pigs

WE RECENTLY saw a brood sow with a litter of 11 nice pigs. The youngsters were doing splendidly, but we advised against keeping any of them for breeding purposes. That was because 7 of the pigs were boars, and every last one of them was ruptured!

According to the experts, rupture is almost entirely an inherited characteristic in swine, and may be passed on by either males or females of an affected bloodline. So, it seems like a poor gamble to "save out" pigs from litters having ruptured animals.

Prevent foot rot

YOU CAN EASILY prevent a lot of foot rot by making your cows walk through air-slaked lime. Just fit a plank box 6" deep and 5' wide across the inside of the barn doorway and put 2" or 3" of the white stuff in it. Without being able to walk around or jump over the box, cows will step in the lime with all four feet every time they enter or leave the barn.

Being inside the barn, the lime won't be washed away by summer rains. It *will* get dirty, though, so the box will need regular cleaning and refills with fresh lime.

Pig trouble from rye

THE OTHER DAY we saw some shoats that looked like poor bets to live through the summer. Some had enlarged joints and bowed legs, others looked partially blind. All were scrawny and mangy-looking—a sorry bunch in general. The cause of trouble was shown to be a ration composed almost entirely of rye grain, and rapid improvement followed a change in feeding practices.

All of which reminds us that rye can be used safely for swine only when it makes up no more than one-third of the total ration. Larger amounts are almost certain to cause rickets and skin disorders.

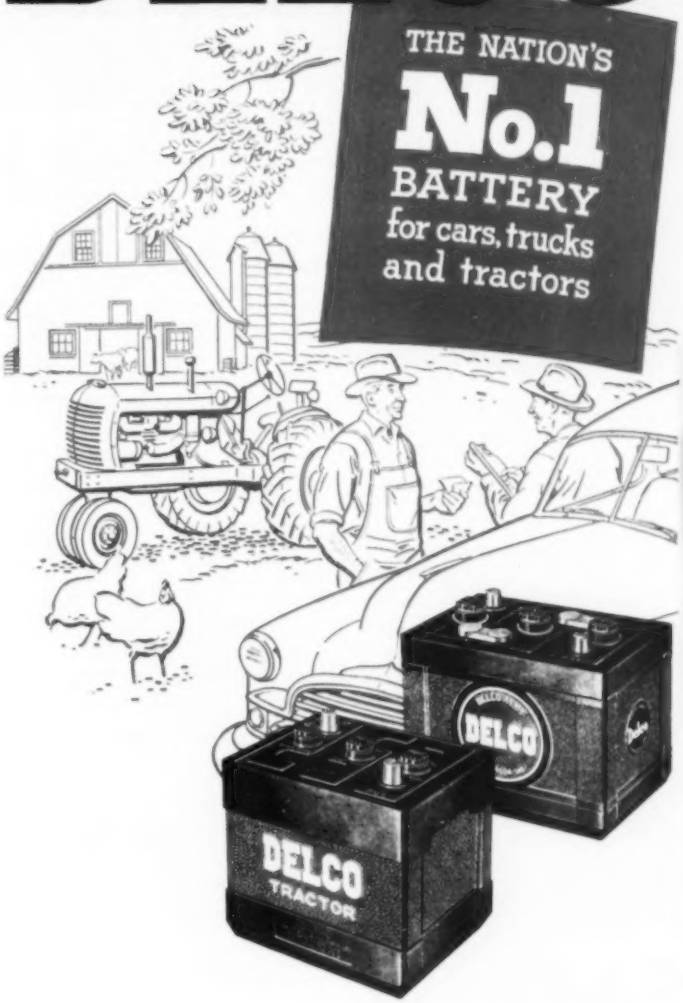
Helpful reminders

A cow that fails to come in heat—unless with calf—usually has a retained yellow body (corpus luteum) in one ovary.

•

A cow that shows continued heat is usually affected with cysts on one or both of her ovaries. END

DELCO



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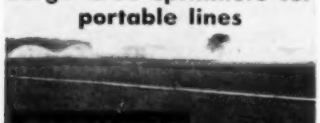

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Kill them with Lindane

[*From page 18*]

homes than the year before. By the end of the summer, farmers in Illinois and other Midwest states were making a similar complaint. DDT seemed to be doing as good a job as ever of killing two of the kinds of flies found on most American farms—stable flies and horn flies. But it wasn't killing houseflies, the commonest of the three around milkhouses, cattle and dairy barns, hoglots, chicken houses, and homes.

Apparently it is time to switch to another insecticide. Where DDT was used before against houseflies, entomologists of Illinois and some other states are now recommending Lindane.

What happened?

Every farmer knows what selective breeding can do to improve milk or meat production in cattle, or to develop disease resistance in grain. Without realizing it, users of DDT were doing some very effective selective breeding of houseflies. They were developing strains of flies resistant to DDT somewhat as a plant breeder develops strains of oats resistant to rust.

As farmers used DDT around their barns and feedlots, they killed the flies least resistant to this organic chemical. The resistant flies escaped to raise other generations more resistant. Resistance to DDT in a fly is measured by the amount of the chemical required to cause death. The build-up of resistance in a strain of flies is slow at first, but soon picks up.

Fortunately, flies resistant to DDT are relatively susceptible to Lindane, chlordane, Toxaphene, and dieldrin.

As a result, entomologists are recommending this year for control of houseflies and also horn flies, stable flies, and horseflies:

1. In and around barns, milkhouses, and homes, spray for houseflies with Lindane—¼ percent emulsion or wettable powder—every three to five weeks. Spray enough to wet surfaces. Do not allow spray to come in contact with foods for human beings or farm animals and do not spray litter, manure, or other material that might provide breeding places for flies, as this helps them breed resistance faster.

2. On dairy cattle, spray for horn flies and stable flies with ½ percent methoxychlor twice a week at the rate of ½ pint per cow per application. The spray needs to be applied only to the parts of cattle attacked by flies.

3. On beef cattle, spray for horn flies with ½ percent DDT every four weeks or ½ percent methoxychlor every three weeks at the rate of 2 quarts per animal per application.

4. On beef cattle or dairy cattle, spray for horseflies with 1 percent piperonyl butoxide plus 0.1 percent pyrethrins twice weekly at the rate of ¼ to ½ pint per animal per application, or daily at the rate of 2 to 4 ounces. Spray the shoulders and other areas attacked by flies.

Entomologists expect Lindane to be effective against houseflies for about two years. By 1952 or 1953, perhaps, a new insecticide will be needed. Any insecticide can be more effective and its job made easier if greater attention is given to sanitation—cleaning up places where flies of all kinds breed. END

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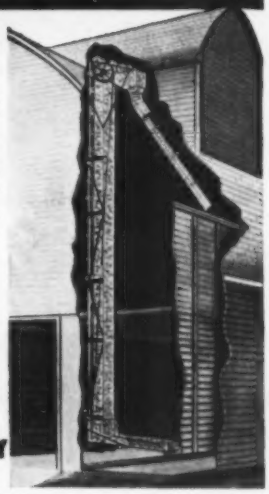

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Dairy

Oats silage did the job

When Ed Kesselring ran out of oats silage and switched to "good" corn silage, his cows dropped 1½ cans of milk a day.

This Van Etten, New York, dairyman had such fine results last winter with oats silage that he is putting up another 60 tons this season. This time, though, he will combine Canadian field peas with the 10 acres of Mohawk oats to add more nutrients and get more moisture so the silage will pack better.

He decided on the idea because oats does better than corn on his hill farm and from reading in F. B. Morrison's *Feeds and Feeding* that "such silage is useful north of the Cornbelt." Following the Cornell animal husbandry man's recommendations, Mr. Kesselring cut the oats for ensilage when in the dough stage, and the peas when they had hardened.

The bundles of oats and the peas were put in the ensilage cutter and blown into the silo. No preservative was added. The odor, he says, wasn't nearly so bad as clover silage—"had no complaints from the missus." The silage is fed twice a day to his 25 Holstein milkers along with hay and grain. Each cow eats about 35 pounds of the silage a day.

"Not only am I pleased with the milk output but I know that this silage helps keep flesh on the cows," Mr. Kesselring says.—*W. B. W., New York.*

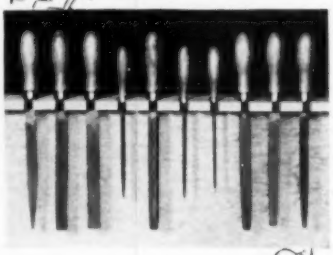
Udder washer

Harry de Laere of Ingham County, Michigan, is using one of the "cow-to-can" milking systems. And that means a "walk-through" milking parlor in connection with his stanchion-type barn. When cows are released from the stanchions, they go first to this point to have their udders washed before going into the milking parlor. (See picture below.)

To provide this effective sprayer, hot water was piped in from the heater. The shutoff valve is under the hinged plate through which the flexible rubber hose runs. The nozzle is from an old knapsack sprayer.

The cow's udder is washed with chlorine water from the pail and then rinsed with the warm-water sprayer. There is a floor drain. Shutoff valve is the mixer type so that temperature of the water can be controlled.—*G. S., Michigan.*

Sign of a



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SAVOSS

Livestock

Farmers stop necro with new wonder drug

SWINE ENTERITIS (necro) is being whipped in short order in the area surrounding Austin, Minnesota. All of this has happened following recent announcements that aureomycin and probably other antibiotics were snapping pigs out of the unthrifty condition that goes along with enteritis. And now, Dr. L. H. Pint, of Austin, has treated approximately 40 herds and reports that all of them have responded to treatment with varying degrees of success.

How well aureomycin acts depends upon the herd and the type of enteritis, according to Doctor Pint. The nutritional type disappears within two days to a week, depending on the severity of the disorder. For pigs bothered with the bloody or infectious type, aureomycin doesn't seem to help pigs already infected. But it does enable the still-healthy pigs to ward off the disease. However, it's important that pigs be taken off pasture while the treatment is being given, says Doctor Pint. He has seen it tried both ways.

One herd treated by Doctor Pint belongs to Art Loucks of Mower County, Minnesota. About half of his 214 weaned pigs were troubled with scouring.

Following Doctor Pint's prescription, he mixed 10 pounds (1 percent) of a commercial dry mash (containing aureomycin) with 1,000 pounds of oats and protein supplement. Later, he cut the dry mash to 5 pounds per 1,000 pounds of feed, or ½ of 1 percent.

Art could note quite an improvement by the second day. He has continued to mix this dry mash with the other feed, and expects to continue this treatment until marketing time.

Chester Taylor, also of Mower County, has had somewhat the same experience. Of 43 head of weanling pigs, some 10 or 12 were scouring and showing other signs of enteritis. Taylor mixed the dry mash (containing aureomycin) with hog feed at the rate of 1 percent. Then, after feeding 200 pounds of the mixture at this rate, he cut the proportion to ½ of 1 percent.

Taylor's pigs quickly snapped out of their unthrifty condition, and within two days he could see but little difference between the 10 or 12 which had been scouring and the ones which had not been troubled with this disorder.

Suggest cause for X-disease

OVERABUNDANCE of trace minerals, or some toxic substance in the soil, is now under suspicion as the cause of X-disease in cattle, according to a joint study by Johns Hopkins University and the McCollum-Pratt Institute, Baltimore, Maryland.

Although the evidence is conflicting, molybdenum, an element essential for higher plants, appears to be more seriously implicated than any other factor considered. However, those conducting the study believe that the condition causing X-disease is due to a combination of trace minerals, rather than one by itself. And, in the end, something utterly different may turn out to be the cause. END

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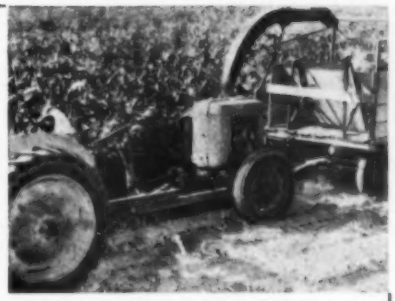

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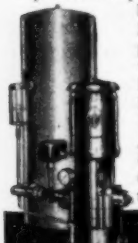

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More money for your hogs

[*From page 44*]

difference in value between the products from a meat-type hog and an overfinished hog of the same weight is what has caused Wilson & Co. and some of the other packers to work out a method of more selective buying. The new plan tries to recognize the important differences in cut-out performance.

Another development in the same direction during the past year has been the work of the U. S. Department of Agriculture. The Livestock Branch of the U.S. D.A. has taken the bull by the horns and has worked out a grade system for live hogs, based on a set of standards or measurements for hogs of various weights. For example, the best hog in the 200-pound class should run between 1.57 and 1.84 inches in back fat, and from 48 to 51 percent of the chilled dressed weight should be of lean cuts (ham, loin, picnic, and Boston butt).

Wilson & Co. has developed a set of standards of their own, after nearly two years of experimental work. The standards for the Wilson Special Grade are surprisingly close to U.S.D.A. standards for the best grade of hogs in the 200-pound class. The carcass figures of Philip Hand's hogs will give you a good idea of why the Wilson buyers decided the porkers were good enough to make the Special Grade.

In the first place, Phil's hogs looked mighty good to Walter Weiditz, the alley buyer for Wilson. He liked those hogs the minute he saw them being unloaded.

Having recently been schooled in the art of recognizing carcass cut-out value in the live hog, Weiditz wasn't letting his emotions carry him away. He could readily see that here indeed was a bunch of hogs very uniform in size and conformation. They were so uniform that he had to sort out only one hog, and this merely because of a leg injury.

Weiditz called for Allen Nash, head hog buyer, to come down and have a look at them. While squinting and gazing, these two buyers were picturing in their mind's eye how the live hogs would look as carcasses hanging on the rail. Their dressing percentage, thickness of back fat, length of carcass, percentage of lean cuts—all of these had to be considered.

It was then Phil got the good news—these two hog buyers were so sure this drove met the Wilson standards for Specials that they were going to pay Phil the top premium so far allowed. It was 25 cents above the going market price.

You can see that Weiditz and Nash had their necks pretty far out. For the carcasses of these hogs were to be followed over the cutting floor for their true value, and these actual carcass results would be compared with the buyers' judgment—a judgment made while the hogs were still alive.

Here's how Phil's hogs actually did. When run across the scales, they averaged 210 pounds. That's well within the 200- to 230-pound limit set by Wilson & Co. for their Special Grade. As already stated, the hogs were extremely uniform, with only one sort. Wilson prescribes that a shipment of hogs must carry very few sorts if the drove is to be considered.

When killed, Phil's hogs had an average back-fat thickness of 1.58 inches,

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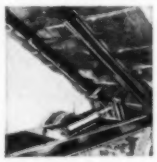

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which was close to the ideal for Specials. In fact, 18 of the 19 hogs fell within the high-cutting range of finish, running between 1.37 and 1.75 inches of back fat. Even the nineteenth hog, which measured 1.89, would not be considered lardy or overdone for this weight.

Their carcass length, as measured from the aitchbone to the first rib, was 29.39 inches. That's a most acceptable length.

The degree of finish (back-fat thickness) and carcass length are the two measurable factors which the buyer can use. That's because these two factors explain about 75 percent of the variation in yield of the lean cuts. The other 25 percent is estimated when the buyer looks over the drove of live hogs for such characteristics as type, conformation, smoothness, balance, and uniformity. That's what Walter Weiditz and Allen Nash were doing, in addition to estimating back-fat thickness and length.

> **The surest sign that a man is not great is that he strives to look great.**
> —*Charles G. Dawes*

And those two principal measuring sticks, back-fat thickness and length of carcass—as estimated in the live animal by the hog buyer—ran true to form in this case. Here's how things turned out: The four lean cuts totaled 53.48 percent of the total dressed weight, which is markedly higher than the 49 percent for average hogs of this weight. The meat was firm and of high quality.

Wilson & Co., as well as the U.S.D.A. workers, want to make it plain that any breed of hog—when properly selected, fed, and marketed—will do the job. Phil's hogs were a Berk-Hamp cross.

It also should be made clear that there's no apparent conflict between the superior cut-out performance, desired by the packer, and highest production efficiency in the feedlot. In other words, the two can go together. While there's little experimental evidence to prove it, the belief is generally held among animal husbandry experts that the middle-of-the-road type is the most efficient gainer and cheapest for the farmer to produce.

A third point, and an important one, is that the hog raiser understands what kind of a hog is desired, so that he can produce the type which brings the premium. With that thought in mind, the Wilson people insist that the producer come along when his hogs go to market. Then they can explain why they do what they do. That's far better than depending on the trucker to tell the farmer.

It's also important to understand that this premium method of buying hogs doesn't mean that a greater *total* amount is going to be paid for hogs in the future. It's merely a plan for redistributing the returns, paying more for the better kind and discounting the plainer-cutting hogs.

So far, Wilson has been working this plan only on the good hogs, while they gain more experience.

Ahead lies the time when both the premium and discount phases of the program are brought into play. That's the crucial stage. The success of this hog-buying system depends in considerable measure upon how well the buyers and producers can agree as to whether a hog should rate more or bring less. END

Strictly business

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Every year, on thousands of farms, good farm management depends on Kreso Dip No. 1 as the dependable precaution against costly diseases and parasites.

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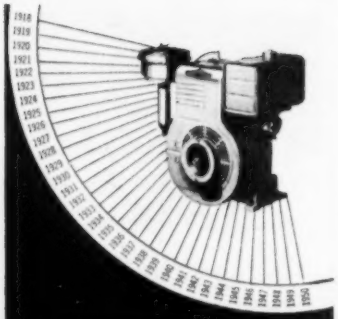
"Till recently I had to depend on unpleasant medicines for constipation. Never thought I would solve this problem. Then started eating toasty ALL-BRAN. So effective!" Mrs. E. Kaupman, Clinton, N. J., Box 393. *Just one of many unsolicited letters from ALL-BRAN users.* This may be *your* answer to constipation due to lack of dietary bulk. Simply eat an ounce of crispy Kellogg's ALL-BRAN daily, drink plenty of water. If not *completely* satisfied after 10 days, send empty carton to Kellogg's, Battle Creek, Mich. Get DOUBLE YOUR MONEY BACK!



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A home planning service tailored to farm living is being offered by one store near you. See page 105.

2 New—Improved MULKEY FARM ELEVATORS

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JULY POULTRY POINTERS

How to avoid a summer slump

Feed 'em wet mash. Hot weather may cut mash consumption and bring a drop in production.

Enough wet mash for 100 hens can be made by mixing 2 pounds of regular mash with water or skim milk. Feed the wet mash on top of the dry mash at noon in the regular mash hoppers. A laying slump often can be avoided if you start feeding wet mash as soon as you notice a drop in feed consumption.

Give 'em air. When the temperature climbs to 90 degrees, the loss in weight by layers is serious, feed consumption drops sharply, and there is a definite loss in size and interior quality of eggs. Shells become thinner, which results in more breakage.

When the temperature climbs to 100 degrees, there is always the real danger of heat prostration and death of layers. Egg production may stop if temperatures go much above 100 degrees.

Many laying houses are not properly built for summer use. Cross ventilation is necessary. Windows should be screened so they can be removed. Plenty of space for watering and feeding is necessary.

Another effective measure is the use of aluminum in sheet, roll, or paint form to keep the heat out by acting as reflective insulation. In general, the smaller poultrymen will not find the use of mechanical air circulation—such as electric fans or sprinkling of roofs with water—to be practical.

Squelch the broodies. During the summer months, some hens in any flock suddenly become broody.

A coop made from a lettuce crate gives excellent results when hung from the ceiling near the nests. Such a crate is 15" high, 18" wide, and 24" long. These coops have a flat bottom. A piece of electric-welded wire may be fastened at the top, by staples, to swing inward to make a door.

Troughs can be attached to the side and fastened on the outside of the coop by screw hooks. You can provide water by fitting a can into one end of the feed trough. A piece of welded wire fabric hung over the top side of the feed trough prevents hens on the floor from flying up to eat grain from the broodies in the coop.

John Krill, Mahoning County, Ohio, uses another idea on broody hens. He fills a 2"x6" carton with eggs, places it in a freezer, and keeps it there until needed. When a "cluck" is discovered, three or four of the frozen eggs are placed under her. Two such chilly treatments will discourage even the most determined bird. Krill marks a line around each frozen egg with an indelible pencil to avoid the mischance of its being gathered with the fresh eggs.

When done with the eggs, he puts them back in the carton, and they are kept in the freezer until needed. END

"NO MORE HEARTBURN!"

Simple Change in Mealtime Habits Brings Natural Relief

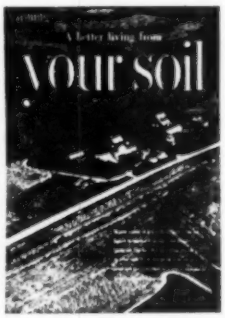
Stomach distress after meals? . . . acid taste in mouth? . . . that oppressive, gassy feeling? Then read this encouraging letter from a man who suffered the same way—*until he found the real cause:*

"I used to call my upset stomach 'dyspepsia'—till my doctor said it might be caused by coffee. So I switched to POSTUM and now my digestion is perfect, with no more heartburn. I feel like a *new man!*"

SCIENTIFIC FACTS: Both coffee and tea contain caffein—a drug—an artificial stimulant. In susceptible persons, caffein tends to produce *harmful stomach acidity*, as well as *nervousness* and *sleepless nights*. So, while many people can drink coffee or tea without ill-effect, others *can't*—and this may mean *you!*

MAKE THIS TEST: . . . Give up coffee—give up tea—drink POSTUM exclusively for 30 days . . . and *judge by results!* Remember: POSTUM contains no caffein or other drug—nothing that can possibly upset your stomach, nerves, or sleep! INSTANT POSTUM—A Vigorous Drink made from Healthful Wheat and Bran . . . A Product of General Foods.

Grow bigger crops and have a Better Living from Your Soil



The *Successful Farming* Field Service Man, our authorized representative, will have your copy of this new book with him when he comes to call next time. Make sure to ask him about it.*

* *A Better Living From Your Soil* is distributed by *Successful Farming* Field Service Men.

He saves with tarpaulins

Big tarp is used to cover combine in field. Saves time spent pulling combine home at night and prevents costly moisture damage

Grain isn't wasted when a tarp is spread inside truck box. Tarp tied on top of load prevents loss of grain from wind

Bales piled outside are damaged by rain and sun. A tarp, securely fastened, makes a low-cost, weather-tight cover

By Harold Hartogensis

Four tarpaulins save Bill Peach, O'Fallon, Illinois, time and money. He doesn't have quite enough housing for all his machinery, and tarps solve the storage problem for him. The five pictures on this page show some of the uses Peach makes of his tarps. There are others:

"When I have a seed drill or hay baler hooked to my tractor, it's sometimes a waste of time to back it into the shed at night. Usually the shed already is full, anyway. I take two tarps and tie one on the tractor and one on the drill or baler," Bill said in explaining the various uses of his tarps.

Bill says that covering a hay baler is a particularly good idea. If moisture gets into the baler, the loose hay swells up and jams the machine.

"I know if I take care of my machinery it will last longer. I also know from experience that using tarps helps cut down on lost grain and hay. I wouldn't be without them. They're too good as money- and timesavers."

No grain is wasted during the fanning operation when a tarp is spread on the ground to catch seed and keep it clean

Spreading a tarp under a machine before starting repairs is a good idea. Parts get dirty or are lost when put on ground. END

PLENTY of Running Water at low cost with a

RAPIDAYTON

As long as you have any water in your well, there's a Rapidayton model which will deliver that water under pressure to your kitchen, bath, garden, lawn or barn.

There is a complete new line of Rapidayton jet pumps for both shallow and deep wells. These new pumps bring the joys and conveniences of running water to farm homes all over the country. They are modern in every respect, yet they are moderately priced.

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Shows you how to build better farm buildings for more profitable farming. There are illustrations and floor plans for all kinds of farm buildings—from general purpose barns to hog houses and machine sheds. Includes a complete remodeling section.

Order your copy today from Successful Farming, 4607 Meredith Building, Des Moines 3, Iowa. Only 50c.

"Windgall? Use

ABSORBINE"

says *Gustave Troutman, of Milton, N.Y.*

"I've been a farmer for 40 years and all that time I've used Absorbine for my horses. I've found it quickly relieves strain and soreness from windgall."

Yes, farmers know there's nothing like Absorbine for helping to relieve lameness due to windgall, sore shoulder, fresh bog spavin and similar congestive troubles. Not a "cure-all," Absorbine is a time-proved help . . . used by many leading veterinarians, too, for helping to relieve puffs, strains and bruises.

A stand-by for 50 years, Absorbine will not blister or remove hair. Only $2.50 for a long-lasting bottle at all druggists.

W. F. Young, Inc., Springfield, Mass.

Farmer's Trading Center

Advertisements using illustration or display (large) type, $5 per agate line. This classification is open to baby chick, poultry, livestock, pet stock, and schools. Straight classified, (no illustration or display type)—20 word minimum—all classifications—60 cents a word. Write Successful Farming, Des Moines 3, Iowa, for complete information.

AGENTS WANTED

At Last! Something new and sensational in Christmas cards. Show gorgeous satins, velours and metallics never before offered. Gets easy orders fast! Pays up to 100% cash profit. Free Samples of 30 Christmas cards with name, 50 for $1.00 up. 80 Assortments. Personalized Book Matches and Stationery, Gift Items. 2 assortments on approval. Write Puro Co., 2801 Locust, Dept. 656-J, St. Louis, Missouri.

Imagine—extra cash for you! Sell friends amazing value Metallic Felt Applique, Comic, 50 for $1.00 Christmas Cards. Exclusive Gift Wraps. All-Occasion Assortments, Scented Stationery, Animated Books, Gifts. Profits to 100%. Special offers. Bonus. Write today for free samples Name Imprinted Christmas Cards, Napkins, Stationery. Feature assortments on approval and free catalog. Elmira Greeting Card Co., C-2106 Elmira, N.Y.

Amazing offer—$40 is yours for selling only 50 boxes Christmas cards. And this can be done in a single day. Free samples. Other leading boxes on approval. Many surprise items. No experience needed. Free samples personalized Christmas cards, stationery, napkins. Write today. It costs nothing to try. Cheerful Card Co., 1494 White Plains, N.Y.

Brand New! Amazingly different and smart Christmas Cards bring you big money! Take easy orders for sensational new Christmas Cards. Pays up to 100% cash profit. Christmas Cards With Name 50 for $1, up. Big Line. Personal Stationery and Book Matches. Get sample assortments on approval. Imprints Free. Write today. North Star, 31 Glenwood, Dept. J-9, Minneapolis, Minn.

Found! Over 100 ways to make extra money and friends. Sell Metallic Christmas Cards, Wrappings, Children's Books, Gifts. Big profits. Bonus. Request Feature samples on approval, free samples Name Imprinted Christmas Cards, Stationery, Napkins, free Catalog and free Selling Guide. New England Art Publishers, North Abington 253, Mass.

Call On Friends with sensational Christmas Cards in handy assortments. Sell for $1.00. Profit up to 50c. Also popular-priced Personal Christmas Cards, Everyday assortments, Stationery, Gift Items. Samples on approval. Wallace Brown, Dept. L-4, New York 10, N.Y.

$9.00 easily made in spare time. Sell sensational new name-imprinted Christmas Cards. 50 sell for only 1.00. Not obtainable elsewhere. Big Profit. Write for free samples. Kit on approval. Regal Greetings, Hazel Park 24, Michigan.

Free Samples. Big profits showing amazing Glow-in-the-Dark specialties. House numbers, pictures, plastic novelties, ashtrays, keyholders, religious and nursery objects, etc. Madison Plastics, 303 Fourth Ave., New York 10, N.Y.

Agents Wanted: Make money and satisfied customers. Buy, sell and install Lightning Rods. Millions of farm buildings now protected. Write for Agents proposition. Reliance Company, Box 530, Sycamore, Ill.

Shine Shoes Without "Polish". New Invention. Lightning seller. Shoes gleam like mirror. Samples sent on trial.
Kristee 151, Akron, Ohio.

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Highest Cash Paid For Old, Broken Jewelry, Gold Teeth, Watches, Silverware, Diamonds, Spectacles. Free Information. Satisfaction Guaranteed. Government Licensed Rose Smelting Company, 29-D East Madison, Chicago.

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Moth holes, Burns, Tears repaired in clothing, fabrics. Linens, Woolens, Silks, Rayons etc. by expert weaving. Seamless, not patched. Patterns matched as original. Save good clothes. It pays. Mail them to us. Estimates sent for your approval before proceeding. Bonded. Insured. Try us. Nebraska In-Weaving Co., Brandeis Theatre Bldg., Omaha, Nebr.

Outdoor Toilets, Cesspools, Septic Tanks cleaned, deodorized with amazing new product. Just mix dry powder with water, pour into toilet. Safe, no poisons. Save digging and pumping costs. Postcard brings free details. Burson Laboratories, Dept. H-30, 955 Willard Ct., Chicago 22, Ill.

Women! Sew And Earn! Hundreds of markets open for hand sewing. Circular gives details on selling your work without canvassing. Lists markets. Write:
Sewing Research, Stanton 27, California.

New White Nylon parachute canopies over 50 square yards $13.95 postpaid. 4 panels $3.95. Write for catalog. Ted Berman Co., Box 926 SU, Sacramento, Cal.

Decorating advice. Stores offering Successful Farming's home planning service are listed on page 105. Visit the store nearest you for help with your decorating problems.

Nurses' Training School. Make up to $35-$45 Week as a Trained Practical Nurse! Learn quickly at home. Booklet free. Chicago School of Nursing, Dept. F-6, Chicago.

32 volt automatic irons, toasters. Other wonderful new 32 volt appliances available. Catalog Free. Write: Farmaide, Dept. S, Shelby, Montana.

Have you read the Successful Farming advertising guarantee on the index page? It means exactly what it says. It is worthwhile to you.

RABBITS

Raise Highly Profitable Angora Rabbits backyard easy way. Multiply fast. Wool brings top price. Details free.
White's Rabbitry, Newark, Ohio.

Make Big Money! Raise Chinchilla Rabbits. Ready Cash Markets Supplied for your production. Write Today!
Rockhill Ranch, Sellersville 9, Penna.

Raise Rabbits, Hamsters—Ready Market food, fur. Journal teaches how. Year $1.00, sample dime. Standard Rabbit Journal, B-241-5, Milton, Pa.

Rabbits for tasty food and Profit. Write for information and free Booklet.
Dr. Frank Baddour, Lebanon 10, Tenn.

SALESMEN WANTED

Start Your Own Business On Credit. Always your own boss. 1,554 Dealers sold $5,000 to $26,500 in 1948; their average $6,742! We supply stocks, equipment on credit. 200 home necessities. Sales experience not needed to start. Wonderful opportunity to own pleasant, profitable business backed by world-wide industry. Write Wawleigh Co., Dept. G-U-SHW, Freeport, Ill.

All the advertising in this magazine is covered by the guarantee on the index page. This guarantee makes this advertising more important to you.

FEATHERS WANTED

Top market prices paid for goose, Duck feathers new or old
Mitchell Feather Works, Mitchell, S. D.

FILM FINISHING

Quick Service—Top Quality. Any 8 exposure roll developed and 2 prints each good negative regular (small) size, or 1 print each double (large) size only 35c. From 12 or 16 exposure rolls we print double size only. 1 each 50c. Willard Studios, Box 3554K, Cleveland, Ohio.

Bargains in quality finishing. 8 exp. roll dev. and 8 glossy, deckle-edge "Lifetime" prints 25c. 16 prints 35c. 8 Jumbo prints 35c. Free mailers. Credit for failures. Valuable premium offers. 24 hours service.
May Studios, Dept. P-70, LaCrosse, Wis.

Moen's new equipment, better prints quick as a flash. 8 exposure rolls developed and printed contact size 30c, reprints 3c each—8 supersize genuine Moentone prints 35c. Mailers Free. Moen Photo Service since 1898, 38 Moen Bldg., LaCrosse, Wis.

10c package of 100 mounting corners free with this ad. Roll developed and 8 oversize, enlarged, Jumbo, deckled prints 25c, 16 for 5.8c. Framed enlargement coupon free. Electronically exposed.
Skrudland, 6444-Q, Diversey, Chicago.

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Roll Developed, 8 Brilliant Fadeproof Velox prints and two Professional Enlargements 25c. Trial offer. Young Photo Service, 443-C, Albany 2, New York.

10c package of 100 mounting corners free, Roll developed and 8 oversize Jumbo prints 35c.
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Prompt Service—Finest Quality. Two prints (deckle-edge) from each negative on roll 35c. Reprints 3c each. For clear sparkling prints send to Welch Photo Co., 2418-36 Penn North, Minneapolis, Minnesota.

Amazing Introduction Offer. Film developed: 8 enlarged glossy prints 20c; 12 exposures—30c; 16—40c; 36—90c. Money back guarantee. Immediate delivery. Mail-A-Way Photo, Box 375, Fitchburg 35, Massachusetts.

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Two Sets of "Deckledge" prints with every eight-exposure roll finished, 35c. Very finest quality. "Deckledge" reprints, 3c each. Brown Photo Company, 1910-45 Emerson, Minneapolis, Minnesota.

2 Beautiful Hi-Gloss prints each good negative and enlarging coupon with each 6 or 8 exposure roll developed 25c.
Owl Photo Co., Weatherford, Oklahoma.

16 Deckledge Velox prints from any 8 exposure roll film developed 30c. 10c package of 100 mounting corners Free.
S. Skrudland, Lake Geneva, Wisc.

Two beautiful prints from each picture on roll 30c. Twenty-nine years of satisfied customers. Quick Service.
Lens Photos, Dept. C-10, Janesville, Wis.

Eight life prints eight exposure roll 25c. Twelve exposure roll 35c. Reprints 3c, Jumbo 4c. La Crosse Film Service, La Crosse, Wisconsin.

Beautiful enlargement from each picture on roll 30c. Cut Rate Photos, Dept. K-1, Janesville, Wisconsin.

FARMS—REAL ESTATE

Plan a Farm Home in the Northwest where land is reasonable in price. Send for literature on Washington, Oregon, Idaho, Montana, the Dakotas and Minnesota. Write L. B. Duncan, Dept. 729 Great Northern Railway, St. Paul 1, Minnesota.

Good Farms—Ranches. Washington, Minnesota, Montana, Idaho, Oregon, North Dakota. Dependable crops, favorable climate. Write for literature, lists describing typical farm opportunities. Specify which state. J. W. Haw, 11 Northern Pacific Ry., St. Paul 1, Minn.

Terrific Land Bargains in California, Oregon and Washington. Farm, timber grazing lands as low as $1. to $5. acre. 10c (coin) brings circulars. Pacific Tax Sales, Box 2350-SV, Hollywood 28, Calif.

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Canadian Farms—Write us for Free Information on farm settlement opportunities. Fertile soils. Reasonably priced. R. C. Bosworth, Canadian Pacific Railway, Union Station, St. Paul, Minn.

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Strout's Golden Anniversary Farm Catalog. Over 2800 outstanding Bargains. Coast-to-Coast, 32 states. Mailed Free. Strout Realty, 20 West 9th St., Kansas City 6, Mo.

Free Summer Catalog, farm bargains, many equipped, illustrated, many states! United Farm Agency, 428-SF BMA Bldg., Kansas City 8, Mo.

Wisconsin Dairy Farms. Some Modern Homes. Convenient Twin Cities. $40 to $90 per acre. Terms. Baker AAS, St. Croix Falls, Wisconsin.

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Coonhounds, Combination Hounds, Foxhounds, Rabbit and Beagle Hounds. A Specialty. Puppies all breeds. Price Reasonable. Free Literature and Pictures. Trial. Raccoon Mountain Kennels, Box 268, Albertville, Ala., Dures Thomas, Owner.

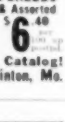
Hunting Hounds: Cheap. Coonhounds, Foxhounds, Rabbithounds, Combination Hunters, Redbones, Blueticks, Blacktans. Trial. Pictures. List Free. Echo Valley Kennels, Herrick, Illinois.

STAMPS

500 Different Stamps, only 25c to introduce our approvals of commemoratives, airmails, pictorials, other choice stamps. Niagara Stamps, Niagara-on-Lake 38, Canada.

Help for Home Planners. For help with your home planning, furnishing and decorating problems, visit one of the stores cooperating with Successful Farming's home planning service. You'll find a store near you listed on page 105.

FREE Book Why MEAT worry? Grow your own in only 25 days, squabs poultry TOPS, large profit. Write today for free squab ideas, easy food starter, prices, directions, opportunity success methods of breeders in every state. 50 years of squab go. Start now. **RICE, 207 H. St., Melrose, Mass.**



ANGORAS FOR QUICK MONEY
Angoras cheaply and easily raised. Thousands needed for breeders in new industry furnishing wool for textile mills. Free illustrated booklet shows sales opportunities, success stories, markets. Write:
WILSON'S, STANTON 27, CALIFORNIA

BOOTH CHICKS
HATCHED THE YEAR ROUND
STARTED PULLETS $30 PER 100 F.O.B.
For MORE Eggs—TOP Profits get our Big Money Making Strains. For 30 years one of America's finest trapnest pedigree breeding farms. Thousands 300-342 Egg Pedigreed Males.
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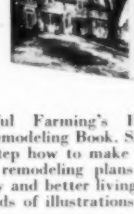
Write Today—Free 4 Color Catalog!
BOOTH FARMS, Box 718-G, Clinton, Mo.

SUCCESSFUL FARMING

"Well, at least it doesn't drip anymore!"

how to solve your building problems



Get Successful Farming's Home Building & Remodeling Book. Shows you step-by-step how to make your building and remodeling plans pay off in economy and better living. Includes hundreds of illustrations.

Order from 3407 Meredith Bldg., Des Moines 3, Iowa. Or get it from lumber dealers and department stores cooperating with Successful Farming. Only 50c.

SERVICE BUILDING BOOK *only* **50c**

Shows you how to build better farm buildings for more profitable farming. There are illustrations and floor plans for all kinds of farm buildings—from general purpose barns to hog houses and machine sheds. Includes a complete remodeling section.

Order your copy today from Successful Farming, 4807 Meredith Building, Des Moines 3, Iowa. Only 50c.

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POULTRY—CHICKS—DUCKS—EQUIPMENT

For quick delivery and at savings of $2.00 to $4.00 per 100 let us furnish you with our U.S. Approved, Pullorum Passed chicks. Our prices are cut on pullets and slashed on cockerels. Quick delivery on Big English type White Leghorns at $9.95—100; Pullets $21.95, New Hampshires, White Rocks, Reds, Wyandottes, Rock-Red Crosses and Cornish-Hamp crosses $9.95; Pullets, $15.95; cockerels $8.95. Write for complete price list and catalog. Jackson County Hatchery, Box 13-C, Seymour, Indiana.

Started Pullets—Lemmen's Large Leghorns all ages. From U. S. Approved-Pullorum Passed Stock. Range Grown. Inspection Privilege. Truck delivery of 1000 or more at low rates, or pick up your own birds at our farm. Buy 6 to 12 week pullets now, lower shipping costs. Cheaper and better to range them yourself than to buy older birds. Contest Mating only. Postcard brings Free 36 Page Catalog-Calendar. Lemmen Leghorn Farm, Box 1104G, Holland, Michigan.

Dubois Chicks for double profits. Bred to lay, priced to sell. For quick shipment C.O.D. New Hampshires, Barred, White Rocks, Reds, White Wyandottes, $9.95; Pullets $15.95; Cockerels $8.95; Silverlaced Columbian Wyandottes $10.95—$16.95—$8.95; White Giants $12.95; White and Black Minorcas, Anconas, Blue Andalusians, Big English White Leghorns $9.95—$21.95—$3.95. Cornish Hamp Crosses for broilers $9.95. Rush your order for quick shipment. Dubois County Hatchery, Box 910-C, Huntingburg, Indiana.

Davis Baby Chicks for immediate delivery. Barred, White Rocks, Reds, New Hampshires, White Wyandottes, as hatched, $9.95—100; Pullets $15.95—100; Cockerels $8.95—100; Columbian and Silverlaced Wyandottes $10.95—$16.95—$8.95; White and Black Minorcas, Anconas, Blue Andalusians $10.95—$21.95—$2.95. Hamp-Leghorns, Austra-White Crosses, Big English White Leghorns $9.95—$21.95—$3.95. Cornish New Hampshire Crosses for Broilers $9.95. Davis Poultry Farm, Box 18-C, Ramsey, Indiana.

Summer prices on Greensburg chicks for immediate shipment. U.S. Pullorum Passed. Prices cut on straight run, pullets or cockerels. Order direct from this advertisement. AAA grade, non-sexed. Barred, White Rocks, Reds, New Hampshires, $9.95 per 100; White Giants, Buff Orpingtons, Black Minorcas, Wyandotte-Hamp Cross, $10.95 per 100. Write today for complete price list and free catalog. Greensburg Hatchery, Box 9-C, Greensburg, Indiana.

Bush's, Bloodtested, State Approved, White, Barred Rocks, Hampshires, Production, Reds, $8.90, Pullets $13.90. Cockerels $8.90. Big type Eggbred Brown, White Leghorns, Austra-Whites, Black, Buff, White Minorcas $8.95. Pullets $14.95. Heavies $7.90. Mixed $6.90. Leftovers $5.95. Barnyard Specials $4.95. Surplus $3.95. Table Use $2.95. Fryer Chicks $1.95. FOB. 100% Alive. Catalog. Other Breeds, grades, prices, discounts. Bush Hatchery, Clinton, Missouri.

Caponize Chemically. No Surgery. Tenderizes, Flavorizes four to eight weeks all age Roosters. Free simple instructions. Golden Valley Hatchery, Dept. E, Parkville, Missouri.

Carney Cuts Prices $2.00—$3.00 per 100. For immediate delivery. AAA grade our best. New Hampshires, Barred, White Rocks, Rhode Island Reds, $9.95—100. Wyandottes, Brahmas, White Giants, Orpingtons $10.95. Big English White Leghorns, Anconas, Buff Leghorns $9.95—100. Austra Whites and Hamp-Leghorn Crosses $10.95. Heavy mixed $7.95. Write for Pullet and Cockerel prices. We ship C.O.D. Carney Hatchery, Box 15-C, Shelbyville, Indiana.

Salem Chick prices slashed, summer prices for immediate shipment. New Hampshires, White Rocks, Barred Rocks, Rhode Island Reds, White Wyandottes $9.95—100. Pullets $15.95; Cockerels $8.95. Anconas, Brown Leghorns, White—Black Minorcas, Big English White Leghorns $9.95—100; $21.95—$3.95. Silverlaced and Columbian Wyandottes $10.95. White Giants $12.95. Heavy mixed, no sex guarantee $6.95.
Salem Hatchery, Box 6, Salem, Indiana.

Baby Chicks. Limited supply, Bloodtested, Production Reds, Barred, White Rocks, Hampshires, Reds, $6.85. Pullets $11.85. White, Brown Leghorns, Austra-Whites $6.95. Pullets $12.85. Heavies $5.95. Mixed $4.95. Barnyard Specials $3.95. Odds-Ends $2.95. Fryer Specials $1.95. 100% alive FOB.
Clinton Chick Store, Clinton, Missouri.

Thompson, Bloodtested, Barred, White Rocks, Production, Hampshires, Reds, $7.85. Pullets $12.85. Brown, White Leghorns, Austra-Whites $7.95. Pullets $13.95. Heavies $6.85. Mixed $5.85. Leftovers $4.95. Barnyard Assorted $3.95. Table use $2.95. Odds & Ends $1.95. FOB 100% alive. Thompson Chicks, Springfield, Missouri.

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Seymour slashes prices. New Hampshires, White, Barred Rocks, Reds, White Wyandottes, $9.95 per 100. Prices cut on cockerels and pullets. Write for complete list of all prices. Immediate shipment C.O.D. Seymour Electric Hatchery, Box 44-C, Seymour, Indiana.

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Dairy Goat Journal, Columbia A25, Mo.

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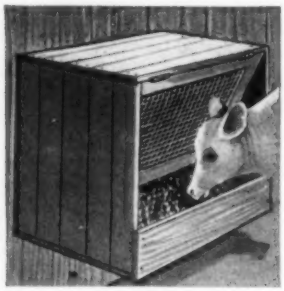
All around the farm

A page written by our readers

We have a tractor-mounted power sprayer with a 33′ boom. When mounting it on the tractor, I detach the bucket from the already-mounted manure loader and clamp the spray boom securely across the two loader arms in front of the tractor. This arrangement enables me to use the hydraulic lift to raise the boom over gateposts or obstructions in the field. It also allows me to adjust the height of the sprayer to meet field conditions while the tractor is in motion. The supply tank for spray is carried on the tractor drawbar.—*M. H., Iowa.*

We always had trouble hearing a car come into the farmyard, so we got a bell signal such as is used in gas stations. It has worked out very well as a call bell.—*H. H., Minnesota.*

To make it possible to have clean, attractive feed before calves at all times, I have made my feeders as illustrated. Such feeders, within creeps to keep out

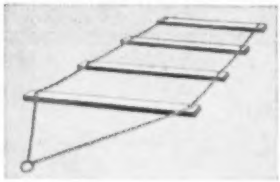


the larger stock and with the drop door to keep out chickens, are easily and quickly used by the calves. My calves refused to eat feed after the chickens had scratched in it and gotten it dirty, but we have had no trouble with fouled feed since I built these feeders.—*A. T., Oklahoma.*

Unless window screens are a very snug fit, small insects can crawl in between the screen frame and the window frame. We keep them out by sealing all cracks with adhesive weatherstripping tape as we fit our screens in place.—*Mrs. M. F., Ohio.*

To mix paint rapidly and thoroughly with the aid of my electric drill, I welded a large washer to one end of a foot-long, 3/8″ rod. The drill operates this rod at such a high speed that mixing even a large amount of paint is not much of a chore.—*R. V. S., Minnesota.*

To make it easy to unload earth or sand from a flat bed, I use four or six 4″x4″ pieces, each as long as the width of the wagon box or truck body. Holes are bored through the pieces about 1 foot from each end, so a light chain can be run through the holes and fastened with bolts. I leave plenty of slack between the pieces when putting them on the bed of the wagon or truck. Bolts can be fastened through smaller holes and attached to links of chain (see drawing) instead of running the chain through the holes, if desired. The ends of the chain are fastened together. To unload, I fasten the chain to a tractor, block the wagon or truck, and drive the tractor ahead, dropping the load at the tail gate of

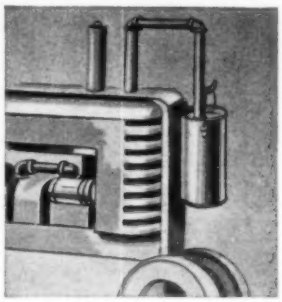


the truck. If the load is to be dropped near a fence post, I can fasten the chain to the post and drive the truck or wagon out from under the load.—*G. E. G., New York.*

When putting an electric fence close to the ground where there is danger of weeds touching the fence, I spray along the fence line with a good weed killer. There are a great many of these on the market which can be used. This has ended all shorts to my electric fence formerly experienced due to weeds touching it.—*D. M., Wisconsin.*

Horseshoe pitching is recreation many of us enjoy, but the permanent stakes are a hazard for both youngsters and grownups unless guarded. We have a couple of 3′ lengths of 2″ pipe, painted white, and we set these over the stakes when they are not in use.—*W. L. S., Minnesota.*

A spark arrester is a "must" for tractors which are to be driven into or through barns. The one I have illustrated has proved to be efficient. It is simple and adapted for use on any tractor having an upright exhaust pipe. The size of pipe used will de-



pend upon the size of the exhaust pipe.

A hook welded near the end serves to hold the bucket partly filled with water. A long bucket works best, as it leaves more space between the water and the end of the pipe. The entire outfit is easily removed and does not interfere with the operation of the tractor in any way. The pipe can be made to slide into or over the exhaust pipe.—*W. H., Wisconsin.*

Successful Farming will pay $5 for each item upon publication. You are invited to send us your ideas. We consider each one carefully, but regret we cannot return those not published.—*The Editors*

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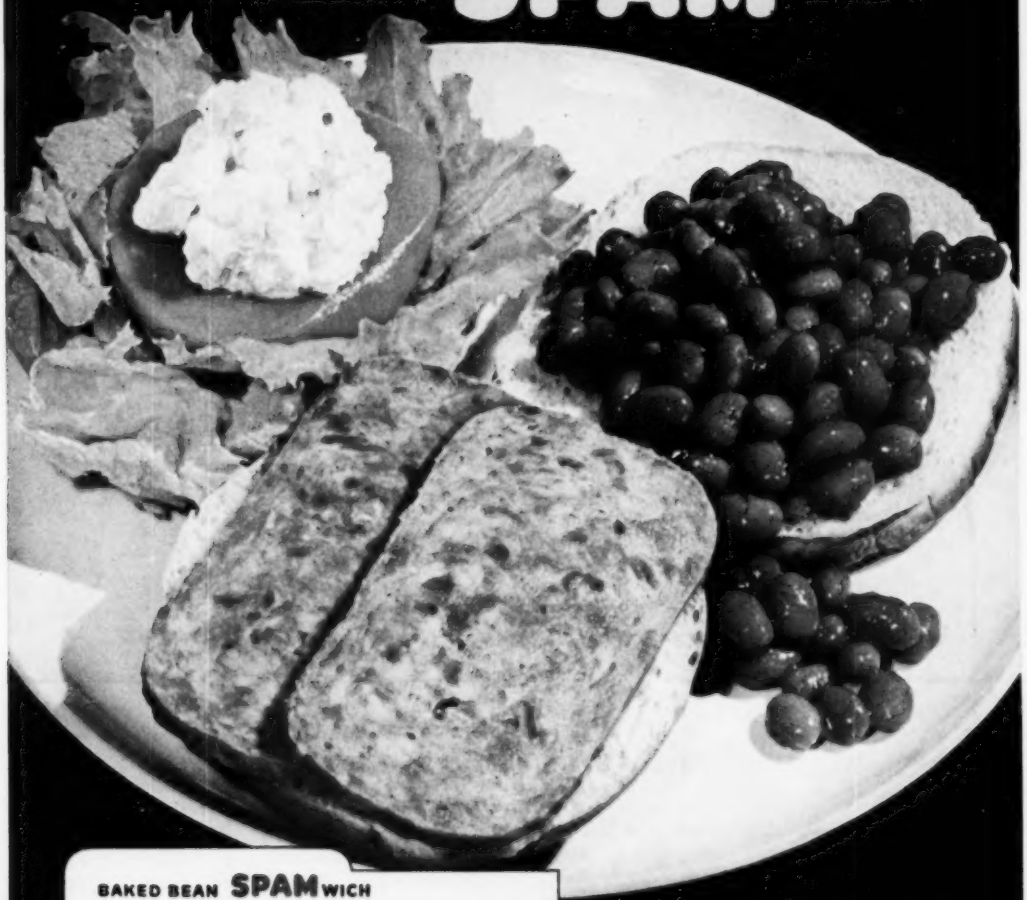

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